

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

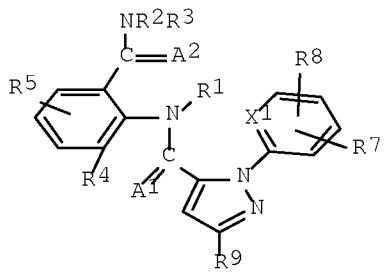
=> s US 20070232598/pn
L1 1 US 20070232598/PN
 (US20070232598/PN)

=> d 11 ibib abs ti hitind all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:470209 CAPLUS Full-text
DOCUMENT NUMBER: 143:2638
TITLE: Synergistic insecticidal compositions comprising nicotinic receptor agonists and antagonists and anthranilic acid amides
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
WO 2005048711 20041030	A1	20050602	WO 2004-EP12328	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, GB, GD, KZ, LC, NA, NI, SL, SY, ZM, ZW	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,			
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, DE, DK, RO, SE, MR, NE,	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,			

SN, TD, TG
 DE 102004006075 A1 20050616 DE 2004-102004006075
 20040207 AU 2004290500 A1 20050602 AU 2004-290500
 20041030 CA 2545586 A1 20050602 CA 2004-2545586
 20041030 EP 1686857 A1 20060809 EP 2004-791081
 20041030 EP 1686857 B1 20081210
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 BR 2004016033 A 20070102 BR 2004-16033
 20041030 CN 1901799 A 20070124 CN 2004-80040222
 20041030 JP 2007510681 T 20070426 JP 2006-538720
 20041030 AT 416614 T 20081215 AT 2004-791081
 20041030 ES 2317064 T3 20090416 ES 2004-791081
 20041030 IN 2006DN02510 A 20070518 IN 2006-DN2510
 20060504 MX 2006005259 A 20060720 MX 2006-5259
 20060510 ZA 2006003763 A 20070725 ZA 2006-3763
 20060511 US 20070232598 A1 20071004 US 2006-579074
 20060511 <-- KR 2006123281 A 20061201 KR 2006-711342
 20060609
 PRIORITY APPLN. INFO.: DE 2003-10353278 A
 20031114 DE 2004-102004006075A
 20040207 WO 2004-EP12328 W
 20041030
 OTHER SOURCE(S) : MARPAT 143:2638
 GI



AB Synergistic insecticidal compns. comprising nicotinic receptor agonists and antagonists RNACX:XE [R= H, (un)substituted acyl, alkyl, aryl, etc.; A = H, acyl, alkyl, aryl,etc; E = electron receptor; X = CH or N; Z = alkyl, OR, SR or NR2; ANCZ = cycle] and anthranilic acid amides I [A1, A2 = O or S; X1 = N or C10; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, the substituents being R6, halo, CN, etc.; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, etc.; R3 = H, alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, etc.; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R6 = CH(:E1), LCH(E1), etc.; E1 = O, S, NH, N:S:O, N(NO)2, etc.; L = O, S, NH, etc.; R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl, haloalkoxy or halosulfinyl].

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 131748-59-9/RN

L2 1 131748-59-9/RN

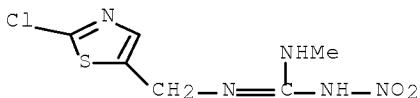
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L2 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 131748-59-9 REGISTRY
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-(CA
INDEX NAME)
OTHER NAMES:
CN CGA 322704
MF C6 H8 Cl N5 O2 S
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, CIN, TOXCENTER,
USPAT2,
USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP
(Preparation); PROC
(Process); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL
(Biological
study); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU
(Occurrence);
PREP (Preparation); PRP (Properties)



<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 852326-20-6/RN

L3 1 852326-20-6/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L3 SQIDE 1-

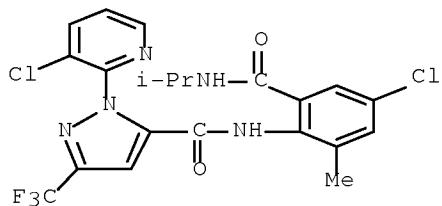
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852326-20-6 REGISTRY
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonylphenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)
MF C21 H18 Cl2 F3 N5 O2 . C9 H10 Cl N5 O2
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

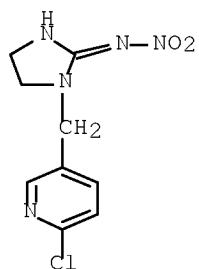
CRN 500008-00-4

CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 138261-41-3
CMF C9 H10 Cl N5 O2



=> e 500008-45-7/rn
E1 1 500008-43-5/RN
E2 1 500008-44-6/RN
E3 1 --> 500008-45-7/RN
E4 1 500008-46-8/RN
E5 1 500008-47-9/RN
E6 1 500008-48-0/RN
E7 1 500008-49-1/RN
E8 1 500008-50-4/RN
E9 1 500008-51-5/RN
E10 1 500008-52-6/RN
E11 1 500008-53-7/RN
E12 1 500008-54-8/RN

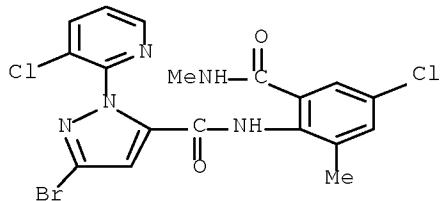
=> set expand continuous
SET COMMAND COMPLETED

=> s e3
L4 1 500008-45-7/RN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 500008-45-7 REGISTRY
ED Entered STN: 19 Mar 2003
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA
INDEX NAME)
OTHER NAMES:
CN Altacor
CN Chlorantraniliprole
CN Coragen
CN DKI 0001
CN DPX-E 2Y45
CN E 2Y45
CN Rynaxypyr
DR 921612-71-7
MF C18 H14 Br Cl2 N5 O2
CI COM
SR CA

LC STN Files: ANABSTR, CA, CAPLUS, CASREACT, CBNB, RTECS*,
TOXCENTER,
USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

252 REFERENCES IN FILE CA (1907 TO DATE)
46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
271 REFERENCES IN FILE CAPLUS (1907 TO DATE)

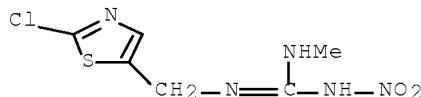
=> e 131748-59-9/rn
E13 1 131748-57-7/RN
E14 1 131748-58-8/RN
E15 1 --> 131748-59-9/RN
E16 1 131748-60-2/RN
E17 1 131748-61-3/RN
E18 1 131748-62-4/RN
E19 1 131748-63-5/RN
E20 1 131748-64-6/RN
E21 1 131748-65-7/RN
E22 1 131748-66-8/RN
E23 1 131748-67-9/RN
E24 1 131748-68-0/RN

=> s e15
L5 1 131748-59-9/RN

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 131748-59-9 REGISTRY
ED Entered STN: 01 Feb 1991
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-
(CA
INDEX NAME)
OTHER NAMES:
CN CGA 322704
MF C6 H8 Cl N5 O2 S
CI COM
SR CA

LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, CIN, TOXCENTER,
USPAT2,
USPATFULL



=> S 852326-21-7/RN

L7 1 852326-21-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L7 SQIDE 1-

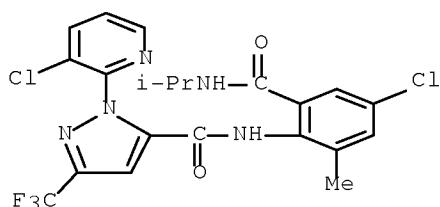
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852326-21-7 REGISTRY
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]cyanamide (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H18 C12 F3 N5 O2 . C10 H9 Cl N4 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 500008-00-4

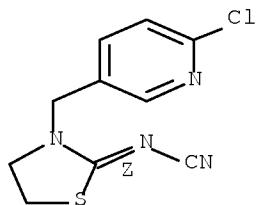
CMF C21 H18 C12 F3 N5 O2



CM 2

CRN 111988-49-9
CMF C10 H9 Cl N4 S

Double bond geometry as shown.



<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 852326-22-8/RN

L8 1 852326-22-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

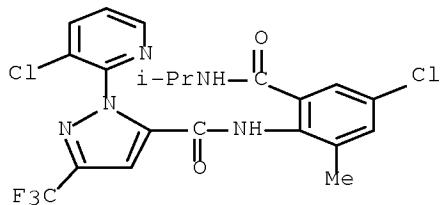
=> D L8 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852326-22-8 REGISTRY
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H18 Cl2 F3 N5 O2 . C6 H8 Cl N5 O2 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2

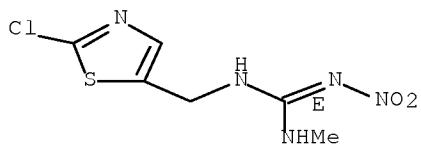


CM 2

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> e 500008-45-7/rn

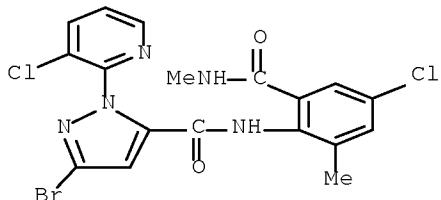
E25	1	500008-43-5/RN
E26	1	500008-44-6/RN
E27	1	--> 500008-45-7/RN
E28	1	500008-46-8/RN
E29	1	500008-47-9/RN
E30	1	500008-48-0/RN
E31	1	500008-49-1/RN
E32	1	500008-50-4/RN
E33	1	500008-51-5/RN
E34	1	500008-52-6/RN
E35	1	500008-53-7/RN
E36	1	500008-54-8/RN

=> s e27

L9 1 500008-45-7/RN

=> d 19

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 500008-45-7 REGISTRY
 ED Entered STN: 19 Mar 2003
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
 [(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA
 INDEX NAME)
 OTHER NAMES:
 CN Altacor
 CN Chlorantraniliprole
 CN Coragen
 CN DKI 0001
 CN DPX-E 2Y45
 CN E 2Y45
 CN Rynaxypyr
 DR 921612-71-7
 MF C18 H14 Br Cl2 N5 O2
 CI COM
 SR CA
 LC STN Files: ANABSTR, CA, CAPLUS, CASREACT, CBNB, RTECS*,
 TOXCENTER,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

252 REFERENCES IN FILE CA (1907 TO DATE)
 46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 271 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```

=> e 210880-92-5/rn
E37      1      210880-90-3/RN
E38      1      210880-91-4/RN
E39      1 --> 210880-92-5/RN
E40      1      210880-93-6/RN
E41      1      210880-94-7/RN
E42      1      210880-95-8/RN
E43      1      210880-96-9/RN
E44      1      210880-97-0/RN
E45      1      210880-98-1/RN
E46      1      210880-99-2/RN
E47      1      210881-00-8/RN
  
```

E48 1 210881-01-9/RN

=> s e39

L10 1 210880-92-5/RN

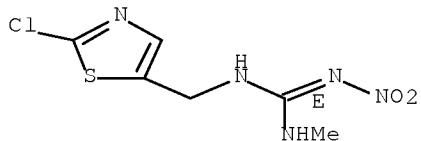
=> d 110

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 210880-92-5 REGISTRY
ED Entered STN: 06 Sep 1998
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-,
[C(E)]-
(CA INDEX NAME)

OTHER NAMES:

CN Apacz
CN Arena
CN Belay
CN Celero
CN Clothianidin
CN Clutch
CN Clutch (insecticide)
CN Dantotsu
CN Fullswing
CN Poncho
CN Takeloc CLMN 10
CN Takeloc MC 50E
CN TI 435
CN TM 44401
CN V 10170
FS STEREOSEARCH
DR 205510-53-8
MF C6 H8 Cl N5 O2 S
CI COM
SR CA
LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
CHEMCATS,
CHEMLIST, CSCHEM, HSDB*, MRCK*, PATDPASPC, RTECS*, TOXCENTER,
ULIDAT,
USPAT2, USPATFULL
(*File contains numerically searchable property data)

Double bond geometry as shown.



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19

L11 271 L9
=> s l10
L12 613 L10

=> s l11 and l12
L13 73 L11 AND L12

=> s l13 and pesticides/ct
 51052 PESTICIDES/CT
L14 7 L13 AND PESTICIDES/CT

=> s l13 and insecticides/ct
 80033 INSECTICIDES/CT
L15 63 L13 AND INSECTICIDES/CT

=> s l13 and (py<2003 or ay<2003 or pry<2003)
 22983883 PY<2003
 4506011 AY<2003
 3975367 PRY<2003
L16 3 L13 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> s l15 and (py<2003 or ay<2003 or pry<2003)
 22983883 PY<2003
 4506011 AY<2003
 3975367 PRY<2003
L17 3 L15 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> s l16 not l17
L18 0 L16 NOT L17

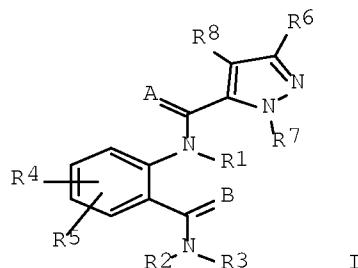
=> d l17 ibib abs ti hitind

L17 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:242097 CAPLUS Full-text
DOCUMENT NUMBER: 138:267201
TITLE: Pesticidal compositions for coating plant
propagation material containing anthranilamides
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2003024222 20020910 <-- CH, CN, GE, GH,	A1	20030327 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,	WO 2002-US30302	

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,
 OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR,
 TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF,
 BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 TW 283164 B 20070701 TW 2002-91118199
 20020813 <--
 CA 2458163 A1 20030327 CA 2002-2458163
 20020910 <--
 AU 2002341819 B9 20030401 AU 2002-341819
 20020910 <--
 AU 2002341819 A1 20030401
 AU 2002341819 B2 20070719
 EP 1427285 A1 20040616 EP 2002-775972
 20020910 <--
 EP 1427285 B1 20070822
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 BR 2002012993 A 20040817 BR 2002-12993
 20020910 <--
 JP 2005502716 T 20050127 JP 2003-528126
 20020910 <--
 JP 3770495 B2 20060426
 HU 2004001893 A2 20050128 HU 2004-1893
 20020910 <--
 HU 2004001893 A3 20051128
 NZ 532269 A 20051028 NZ 2002-532269
 20020910 <--
 CN 1713819 A 20051228 CN 2002-818578
 20020910 <--
 RU 2292138 C2 20070127 RU 2004-111986
 20020910 <--
 AT 370656 T 20070915 AT 2002-775972
 20020910 <--
 ES 2291500 T3 20080301 ES 2002-775972
 20020910 <--
 ZA 2004000413 A 20050120 ZA 2004-413
 20040120 <--
 US 20040209923 A1 20041021 US 2004-485125
 20040126 <--
 IN 2004MN00090 A 20070706 IN 2004-MN90
 20040205 <--
 MX 2004002648 A 20040607 MX 2004-2648
 20040319 <--
 KR 783260 B1 20071206 KR 2004-704134
 20040320 <--
 IN 2005MN00443 A 20050930 IN 2005-MN443

20050517 <--
 PRIORITY APPLN. INFO.: US 2001-323941P P
 20010921 <--
 WO 2002-US30302 W
 20020910 <--
 OTHER SOURCE(S): MARPAT 138:267201
 GI



AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

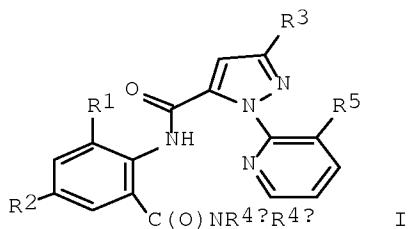
=> d 117 ibib abs ti hitind 2-3

L17 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:154155 CAPLUS Full-text
 DOCUMENT NUMBER: 138:200332
 TITLE: Arthropodicidal anthranilamides
 INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul;
 Stevenson,
 Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----

WO 2003015519	A1	20030227	WO 2002-US25615
20020813 <--			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, GE, GH, LK, LR, OM, PH, TT, TZ,	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
BE, BG, MC, NL, ML, MR,	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,		
NE, SN, TD, TG EG 23419	A	20050704	EG 2002-893
20020810 <--			
TW 225774	B	20050101	TW 2002-91118100
20020812 <--			
CA 2454485	A1	20030227	CA 2002-2454485
20020813 <--			
AU 2002355953	A1	20030303	AU 2002-355953
20020813 <--			
AU 2002355953 EP 1416797	B2 A1	20070125 20040512	EP 2002-752811
20020813 <--			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK BR 2002012023	A	20040803	BR 2002-12023
20020813 <--			
JP 2004538328	T	20041224	JP 2003-520290
20020813 <--			
JP 3729825 NZ 530443	B2 A	20051221 20050729	NZ 2002-530443
20020813 <--			
ZA 2004000033	A	20050803	ZA 2004-33
20020813 <--			
ZA 2004000034	A	20050803	ZA 2004-34
20020813 <--			
CN 1678192	A	20051005	CN 2002-815924
20020813 <--			
CN 100391338 RU 2283840	C C2	20080604 20060920	RU 2004-107505
20020813 <--			
HU 2006000675	A2	20070129	HU 2006-675
20020813 <--			
EP 1944304	A1	20080716	EP 2008-6481
20020813 <--			
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,			

LI, LU, MC, NL, PT, SE, SK, TR			
ZA 2003009911	A	20050311	ZA 2003-9911
20031222 <--			
US 20040198984	A1	20041007	US 2004-483168
20040107 <--			
US 7232836	B2	20070619	
IN 2004MN00015	A	20061222	IN 2004-MN15
20040108 <--			
MX 2004001320	A	20040520	MX 2004-1320
20040211 <--			
JP 2005041880	A	20050217	JP 2004-258923
20040906 <--			
IN 2005MN00444	A	20050930	IN 2005-MN444
20050517 <--			
US 20070225336	A1	20070927	US 2007-787770
20070418 <--			
PRIORITY APPLN. INFO.:			US 2001-311919P P
20010813 <--			US 2001-324128P P
20010921 <--			US 2002-369661P P
20020402 <--			US 2001-341894P P
20011219 <--			US 2002-369659P P
20020402 <--			EP 2002-750482 A3
20020813 <--			JP 2003-520290 A3
20020813 <--			WO 2002-US25615 W
20020813 <--			US 2004-483168 A3
20040107			IN 2004-MN15 A3
20040108			
OTHER SOURCE(S) :		MARPAT 138:200332	
GI			



AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for

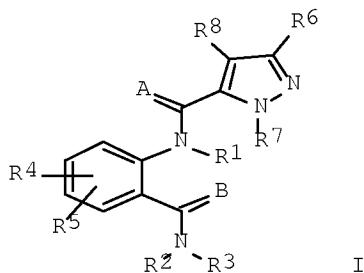
controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. *aizawai*, *B. thuringiensis* sp. *kurstaki*, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:154154 CAPLUS Full-text
DOCUMENT NUMBER: 138:200331
TITLE: Method for controlling particular insect pests
by applying anthranilamide compounds
INVENTOR(S): Lahm, George Philip; McCann, Stephen
Frederick; Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson,
Thomas Martin
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
WO 2003015518 20020813 <--	A1	20030227	WO 2002-US25613	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, GE, GH, LK, LR, OM, PH, TT, TZ, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, MC, NL, ML, MR,	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
CA 2454302 20020813 <--	A1	20030227	CA 2002-2454302	
AU 2002355951 20020813 <--	A1	20030303	AU 2002-355951	
AU 2002355951 EP 1416796	B2 A1	20071206 20040512	EP 2002-752809	

20020813 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 HU 2004001043 A2 20040928 HU 2004-1043
 20020813 <--
 HU 2004001043 A3 20051128
 BR 2002012187 A 20041005 BR 2002-12187
 20020813 <--
 CN 1541063 A 20041027 CN 2002-815930
 20020813 <--
 JP 2004538327 T 20041224 JP 2003-520289
 20020813 <--
 JP 3689817 B2 20050831
 ZA 2004000033 A 20050803 ZA 2004-33
 20020813 <--
 ZA 2004000034 A 20050803 ZA 2004-34
 20020813 <--
 RU 2262231 C1 20051020 RU 2004-107513
 20020813 <--
 NZ 530442 A 20060728 NZ 2002-530442
 20020813 <--
 EP 1944304 A1 20080716 EP 2008-6481
 20020813 <--
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
 IE, IT,
 LI, LU, MC, NL, PT, SE, SK, TR
 ZA 2003009911 A 20050311 ZA 2003-9911
 20031222 <--
 US 20050075372 A1 20050407 US 2004-483115
 20040107 <--
 IN 2004MN00013 A 20070309 IN 2004-MN13
 20040108 <--
 MX 2004001322 A 20040520 MX 2004-1322
 20040211 <--
 KR 847202 B1 20080717 KR 2004-702163
 20040213 <--
 JP 2005041880 A 20050217 JP 2004-258923
 20040906 <--
 IN 2005MN00438 A 20051202 IN 2005-MN438
 20050517 <--
 US 20080275061 A1 20081106 US 2008-141170
 20080618 <--
 PRIORITY APPLN. INFO.: US 2001-311919P P
 20010813 <-- US 2001-324173P P
 20010921 <-- US 2001-324128P P
 20010921 <-- US 2001-341894P P
 20011219 <-- US 2002-369659P P
 20020402 <-- US 2002-369661P P
 20020402 <-- EP 2002-750482 A3
 20020813 <--

20020813 <--	JP 2003-520290	A3
20020813 <--	WO 2002-US25613	W
20040107	US 2004-483115	A1
	IN 2004-MN13	A3
20040108		
OTHER SOURCE(S) :	MARPAT 138:200331	
GI		



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

<http://www.cas.org/support/stndoc/properties.html>

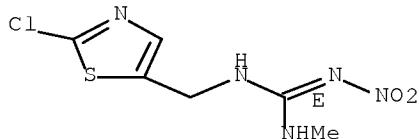
```
=> e 210880-92-5/rn
E49      1  210880-90-3/RN
E50      1  210880-91-4/RN
E51      1 --> 210880-92-5/RN
E52      1  210880-93-6/RN
E53      1  210880-94-7/RN
E54      1  210880-95-8/RN
E55      1  210880-96-9/RN
E56      1  210880-97-0/RN
E57      1  210880-98-1/RN
E58      1  210880-99-2/RN
E59      1  210881-00-8/RN
E60      1  210881-01-9/RN
```

```
=> s e51
L19      1  210880-92-5/RN
```

=> d 119

L19 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 210880-92-5 REGISTRY
ED Entered STN: 06 Sep 1998
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-,
[C(E)]-
(CA INDEX NAME)
OTHER NAMES:
CN Apacz
CN Arena
CN Belay
CN Celero
CN Clothianidin
CN Clutch
CN Clutch (insecticide)
CN Dantotsu
CN Fullswing
CN Poncho
CN Takeloc CLMN 10
CN Takeloc MC 50E
CN TI 435
CN TM 44401
CN V 10170
FS STEREOSEARCH
DR 205510-53-8
MF C6 H8 Cl N5 O2 S
CI COM
SR CA
LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
CHEMCATS,
CHEMLIST, CSCHEM, HSDB*, MRCK*, PATDPASPC, RTECS*, TOXCENTER,
ULIDAT,
USPAT2, USPATFULL
(*File contains numerically searchable property data)

Double bond geometry as shown.



=> s 119 and synerg?

613 L19

130087 SYNERG?

L20 75 L19 AND SYNERG?

=> s 120 and (py<2003 or ay<2003 or pry<2003)

22983883 PY<2003

4506011 AY<2003

3975367 PRY<2003

L21 12 L20 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 121 ti abs ibib hitind 1-12

L21 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticide mixture preparation of azadirachtin and neonicotine series insecticides
 AB The title preparation contains azadirachtin 0.05-80, neonicotine series insecticides 1-80, and addnl. adjuvant to 100%. The preparation can be emulsible concentrate, wettable powder, oil suspension, microemulsion, capsule, water dispersible powder, effervescent tablet, etc. The azadirachtin may be from Azadirachta indica oil, Azadirachta indica extract, or crude azadirachtin; and the neonicotine from flonicamid, clothianidin, dinotefuran, nithiazine, thiacloprid, acetamiprid, etc. The product has long acting period.
 ACCESSION NUMBER: 2004:830370 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 141:327128
 TITLE: Synergistic insecticide mixture preparation of azadirachtin and neonicotine series insecticides
 INVENTOR(S): Xu, Hanhong; Tian, Yongqing
 PATENT ASSIGNEE(S): Huanan University of Agriculture, Peop. Rep. China
 SOURCE: Faming Zhanli Shenqing Gongkai Shuomingshu, 18 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1411723 20021009 <-- CN 1175742	A C	20030423 20041117	CN 2002-134906 CN 2002-134906	
PRIORITY APPLN. INFO.: 20021009 <-- IC ICM A01N065-00 CC 5-4 (Agrochemical Bioregulators) ST azadirachtin neonicotine synergistic insecticide formulation Thiacloprid Acetamiprid IT Azadirachta indica Pesticide formulations (synergistic insecticide mixture preparation of azadirachtin and neonicotine series insecticides)				
IT Insecticides (synergistic; synergistic insecticide mixture preparation of azadirachtin and neonicotine series insecticides)				
IT 11141-17-6, Azadirachtin A 58842-20-9, Nithiazine 95507-03-2, Azadirachtin B 99399-65-2, Azadirachtin D 111988-49-9, Thiacloprid 118855-02-0, Azadirachtin F 134788-15-1, Azadirachtin H 134788-16-2, Azadirachtin I 135410-20-7, Acetamiprid 142647-73-2, Azadirachtin K 145686-15-3, Azadirachtin E 145686-16-4, Azadirachtin G				

150824-47-8,
Nitenpyram 153719-23-4, Thiamethoxam 158062-67-0, Flonicamid
165252-70-0, Dinotefuran 210880-92-5, Clothianidin
724428-47-1, Azadirachtin L
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticide mixture preparation of azadirachtin
and
neonicotine series insecticides)

L21 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic insecticidal, acaricidal, nematocidal, and
bactericidal compositions, and pest control with them
AB Title compns. contain GC6H4C(CN):C(A)OB [A = (un)substituted
heterocyclyl; B = H, C1-4 haloalkyl, tetrahydropyranyl, SiMe₃,
alkali metal, etc.; G = H, halo, C1-6 alkyl, (un)substituted C3-6
cycloalkyl, C1-4 haloalkoxy, C1-4 alkylsulfinyl, C1-4
alkylsulfonyl, NO₂, CN, naphthyl, etc.] and ≥1 compds. chosen from
conventional pesticides, e.g. anilazine, benalaxyd, benomyl,
binapacryl, etc. Thus, concomitant use of 2-(4-chlorophenyl)-3-
(1,3,4-trimethylpyrazol-5-yl)-3-hydroxyacrylonitrile and Ca
polysulfide showed synergistic acaricidal activity against Aculops
pelekassi.

ACCESSION NUMBER: 2004:447099 CAPLUS Full-text
DOCUMENT NUMBER: 141:2859
TITLE: Synergistic insecticidal, acaricidal,
nematocidal, and bactericidal compositions,

and pest

control with them

INVENTOR(S): Miyake, Toshiro; Inoue, Kohei
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 88 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
JP 2004155693 20021106 <--	A	20040603	JP 2002-322041	
PRIORITY APPLN. INFO.: 20021106 <--			JP 2002-322041	
OTHER SOURCE(S):	MARPAT 141:2859			
IC ICM A01N043-56				
ICS A01N029-12; A01N037-02; A01N037-36; A01N041-02; A01N043-36; A01N043-58; A01N043-76; A01N043-78; A01N043-80; A01N047-14; A01N047-24; A01N047-34; A01N055-04; A01N057-10; A01N057-14; A01N057-16; A01N059-02; C07D231-12				
CC 5-4 (Agrochemical Bioregulators)				
Section cross-reference(s): 25				
ST synergistic acaricide acrylonitrile calcium polysulfide; insecticide nematocide bactericide synergistic acrylonitrile				
IT Fungicides (agrochem., synergistic; preparation of acrylonitriles and synergistic pesticides containing them)				

IT Lentinula edodes
(extract; preparation of acrylonitriles and synergistic
pesticides
containing them)

IT Acaricides
Antibacterial agents
Insecticides
Nematocides
(synergistic; preparation of acrylonitriles and
synergistic pesticides containing them)

L21 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Fenoxanil-containing bactericidal and insecticidal composites
AB The title pesticidal composite contains fenoxanil, and at least one bactericide or at least one insecticide. The bactericide may be from carpropamid, jinggangmycin, bismertiazol, isocyanuric acid, oxolinic acid; and the insecticide from triazophos, chlorpyrifos, pyraclofos, pyrethrins (etofenprox), buprofezin, monosultap, bisultap, cartap, fipronil, acetamiprid, nitenpyram, imidacloprid, dinotefuran, thiamethoxam, thiacloprid and clothianidin. The ratio of fenoxanil to another bactericide is 1:15-15:1 for the binary compound; and the ratio of fenoxanil : another bactericide : insecticide is from 1:1-20:1-30 to 20:1-. The concentration of the available component in the compound is 0.05-99.5%. The product is highly effective against rice disease.

ACCESSION NUMBER: 2003:1008669 CAPLUS Full-text
DOCUMENT NUMBER: 140:194924
TITLE: Fenoxanil-containing bactericidal and
insecticidal
composites
INVENTOR(S): Hu, Naidong; Ma, Yunsheng; Shi, Qingling
PATENT ASSIGNEE(S): Guo, Xiao, Peop. Rep. China; Wang, Lijuan;
Hao,
Chunyan
SOURCE: Faming Zhanli Shengqing Gongkai Shuomingshu,
12 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
CN 1393134 20010622 <-- CN 1218637 CN 1593143 20010622 <--	A C A	20030129 20050914 20050316	CN 2001-129504 CN 2004-10004524	
PRIORITY APPLN. INFO.: 20010622 <-- IC ICM A01N047-40 CC 5-6 (Agrochemical Bioregulators) IT Cooperative phenomena (synergism; fenoxanil-containing bactericidal and insecticidal composites)			CN 2001-129504	A3

IT 87-90-1, Trichloroisocyanuric acid 108-80-5D, Isocyanuric acid,
 chlоро
 and bromo derivs. 108-94-1, Cyclohexanone, biological studies
 151-21-3, Sodium dodecylsulfate, biological studies 1343-98-2,
 Silicic
 acid 2782-57-2, Dichloroisocyanuric acid 2921-88-2,
 Chlorpyrifos
 7783-20-2, Ammonium sulfate, biological studies 8061-51-6,
 Sodium
 lignosulfonate 14698-29-4, Oxolinic acid 15263-53-3, Cartap
 24017-47-8, Triazophos 29547-00-0, Monosultap 52207-48-4,
 Bisultap
 58194-43-7, Jinggangmycin 69327-76-0, Buprofezin 79319-85-0,
 Bismertiazol 80844-07-1, Etofenprox 89784-60-1, Pyraclofos
 104030-54-8, Carpropamid 111988-49-9, Thiacloprid 115852-48-7,
 Fenoxyanil 120068-37-3, Fipronil 135410-20-7, Acetamiprid
 138261-41-3, Imidacloprid 150824-47-8, Nitenpyram 153719-23-4,
 Thiamethoxam 165252-70-0, Dinotefuran 210880-92-5,
 Clothianidin 661465-28-7, Fenoxyanil-jinggangmycin mixture
 661465-29-8,
 Fenoxyanil-oxolinic acid mixture 661465-35-6
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (fenoxyanil-containing bactericidal and insecticidal composites)

L21 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticidal mixtures
 AB Synergistic insecticidal mixts. contain clothianidin and
 abamectin, emamectin or emamectin benzoate, methiocarb, β -
 cyfluthrin or λ -cyhalothrin.
 ACCESSION NUMBER: 2003:610145 CAPLUS Full-text
 DOCUMENT NUMBER: 139:129421
 TITLE: Synergistic insecticidal mixtures
 INVENTOR(S): Andersch, Wolfram; Erdelen, Christoph;
 Jeschke, Peter
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

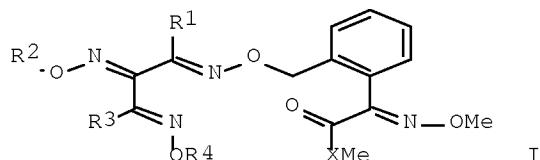
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2003063592 20030120 <--	A1	20030807	WO 2003-EP478	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, GE, GH, LK, LR, OM, PH,	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,			

TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK,
 TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10203688 A1 20030807 DE 2002-10203688
 20020131 <--
 IN 2003MU00039 A 20050128 IN 2003-MU39
 20030113 <--
 CA 2474086 A1 20030807 CA 2003-2474086
 20030120 <--
 EP 1473997 A1 20041110 EP 2003-701526
 20030120 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 BR 2003007356 A 20041214 BR 2003-7356
 20030120 <--
 CN 1646017 A 20050727 CN 2003-807691
 20030120 <--
 CN 100360028 C 20080109
 NZ 534368 A 20060224 NZ 2003-534368
 20030120 <--
 CN 1895048 A 20070117 CN 2006-10100199
 20030120 <--
 CN 101107929 A 20080123 CN 2007-10006746
 20030120 <--
 AU 2003202575 B2 20081113 AU 2003-202575
 20030120 <--
 EG 23409 A 20050621 EG 2003-77
 20030127 <--
 ZA 2004005968 A 20050727 ZA 2004-5968
 20040727 <--
 MX 2004007298 A 20041029 MX 2004-7298
 20040728 <--
 US 20050222051 A1 20051006 US 2004-502527
 20041117 <--
 US 7097848 B2 20060829
 US 20060194747 A1 20060831 US 2006-415811
 20060502 <--
 AU 2008243057 A1 20081127 AU 2008-243057
 20081031 <--
 PRIORITY APPLN. INFO.: DE 2002-10203688 A
 20020131 <--
 AU 2003-202575 A3
 20030120 CN 2003-807691 A3
 20030120 WO 2003-EP478 W
 20030120 US 2004-502527 A3
 20041117
 IC ICM A01N051-00

ICS A01N053-00; A01N043-90; A01N053-08; A01N047-22
CC 5-4 (Agrochemical Bioregulators)
ST synergism insecticide clothianidin mixt
IT Insecticides
 (synergistic; compns. containing clothianidin)
IT 210880-92-5D, Clothianidin, mixts. containing 411221-42-6
 569342-67-2, Clothianidin-abamectin mixture 569342-69-4
569342-71-8
 569342-73-0 569342-75-2
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic insecticidal composition)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L21 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic fungicidal mixtures of oxime ether derivatives with
clothianidin

GI

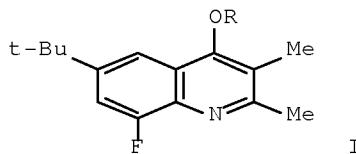


AB Synergistic fungicidal mixts. comprise an oxime ether derivs. I (X = NH or O; R1, R3 = H, cyano, alkyl, cyclopropyl, or haloalkyl; R2 , R4 = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, or haloalkynyl) and clothianidin.

ACCESSION NUMBER: 2003:570704 CAPLUS Full-text
DOCUMENT NUMBER: 139:96697
TITLE: Synergistic fungicidal mixtures of oxime
ether derivatives with clothianidin
INVENTOR(S): Grote, Thomas; Ammermann, Eberhard; Stierl,
Reinhard;
Klaus;
Lorenz, Gisela; Stammller, Gerd; Schelberger,
PATENT ASSIGNEE(S): Haden, Egon
BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
----- ----- ----- ----- -----

WO 2003059067	A1	20030724	WO 2003-EP12
20030103 <--			
CH, CN,	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,	
GE, GH,		CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,	
LK, LR,		GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,	
OM, PH,		LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,	
TT, TZ,		PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,	
		UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW	
AZ, BY,	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,	
EE, ES,		KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,	
TR, BF,		FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK,	
		BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
AU 2003205564	A1	20030730	AU 2003-205564
20030103 <--			
CN 1615079	A	20050511	CN 2003-802271
20030103 <--			
CN 1320855	C	20070613	
JP 2005524623	T	20050818	JP 2003-559243
20030103 <--			
IN 2004CN01794	A	20060224	IN 2004-CN1794
20040811 <--			
PRIORITY APPLN. INFO.:			DE 2002-10201794 A
20020117 <--			WO 2003-EP12 W
20030103			
OTHER SOURCE(S):		MARPAT 139:96697	
IC ICM A01N047-44			
ICS A01N037-36			
CC 5-2 (Agrochemical Bioregulators)			
ST synergism fungicide oxime ether deriv mixt clothianidin			
IT Fungicides			
(synergistic; mixts. of oxime ether derivs. with			
clothianidin)			
IT 560069-47-8			
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)			
(synergistic fungicidal composition)			
IT 210880-92-5D, Clothianidin, mixts. with oxime ether derivs.			
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)			
(synergistic fungicidal compns.)			
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE			
FOR THIS			
RE FORMAT			
L21 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN			
TI Synergistic insecticidal fungicidal compositions for rice paddy,			
and method for control of insects in rice paddy			
GI			



AB Title compns. contain quinolines I (R = H, COR1, CO2R1, COCH2OMe, COCH2O2CMe; R1 = C1-4 alkyl) or their salts and insecticides for rice paddy. Thus, a wettable composition containing 20 ppm I (R = Ac) and 100 ppm MEP showed 100% fungicidal activity against Pyricularia oryzae and 97% insecticidal activity against Laodelphax striatellus.

ACCESSION NUMBER: 2003:143338 CAPLUS Full-text

DOCUMENT NUMBER: 138:182512

TITLE: Synergistic insecticidal fungicidal compositions for rice paddy, and method for control of

insects in rice paddy

INVENTOR(S): Teraoka, Takeshi; Matsumura, Makoto

PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2003055115 20010814 <--	A	20030226	JP 2001-246035	
PRIORITY APPLN. INFO.: 20010814 <--			JP 2001-246035	
OTHER SOURCE(S): MARPAT 138:182512				
IC ICM A01N043-42 ICS A01N031-14; A01N043-40; A01N043-56; A01N043-88; A01N047-12; A01N047-22; A01N051-00; A01N055-00; A01N057-12; A01N057-14				
CC 5-4 (Agrochemical Bioregulators)				
ST MEP quinoline synergistic insecticide fungicide rice; agrochem fungicide insecticide MEP quinoline rice				
IT Fungicides (agrochem.; synergistic insecticidal fungicidal compns. containing quinolines for rice paddy)				
IT Insecticides Oryza sativa (synergistic insecticidal fungicidal compns. containing quinolines for rice paddy)				

L21 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic fungicidal and plant growth stimulating composition

AB A mixture of fludioxonil, metalaxyl and a strobilurin fungicide achieves markedly enhanced action against plant pathogens and is suitable for improving the growth of plants when applied to plants, parts of plants, seeds, or at their locus of growth. Optionally, the composition comprises a neonicotinoid or phenylpyrazole insecticide as well.

ACCESSION NUMBER: 2002:977567 CAPLUS Full-text
DOCUMENT NUMBER: 138:34684
TITLE: Synergistic fungicidal and plant growth stimulating composition
INVENTOR(S): Watrin, Clifford
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
WO 2002102148	A2	20021227	WO 2002-US18933	
20020613 <--				
WO 2002102148	A3	20030327		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
GE, GH,	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,			
LK, LR,	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			
OM, PH,	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,			
TT, TZ,	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR,			
	UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
FR, GB,	KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI,			
CM, GA,	GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI,			
CA 2449831	GN, GQ, GW, ML, MR, NE, SN, TD, TG			
20020613 <--	A1	20021227	CA 2002-2449831	
AU 2002306164	A1	20030102	AU 2002-306164	
20020613 <--				
US 20030130119	A1	20030710	US 2002-170902	
20020613 <--				
US 7071188	B2	20060704		
EP 1416793	A2	20040512	EP 2002-734796	
20020613 <--				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
MX 2003011494	A	20040319	MX 2003-11494	
20031211 <--				

PRIORITY APPLN. INFO.: US 2001-298171P P
 20010614 <-- WO 2002-US18933 W
 20020613 <--

L21 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticide mixtures containing sodium channel blockers
 AB The invention relates to synergistic insecticidal mixts. containing at least one sodium ion channel blocker and (Z)-3-(6-chloro-3-pyridylmethyl)-1,3-thiazolidin-2-ylidenecyanamide or (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine or 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.

ACCESSION NUMBER: 2002:555277 CAPLUS Full-text
 DOCUMENT NUMBER: 137:105180
 TITLE: Synergistic insecticide mixtures containing sodium channel blockers
 INVENTOR(S): Bretschneider, Thomas; Fuchs, Rainer;
 Andersch,
 Erdelen,
 Wolfram; Ebbinghaus-Kintscher, Ulrich;
 Christoph
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 74 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2002056691 20020107 <--	A1	20020725	WO 2002-EP59	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10134720 20010717 <--	A1	20020725	DE 2001-10134720	
IN 2001MU01216 20011226 <--	A	20050304	IN 2001-MU1216	
AU 2002228035	A1	20020730	AU 2002-228035	

20020107 <--
 EP 1359803 A1 20031112 EP 2002-709996
 20020107 <--
 EP 1359803 B1 20071219
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 BR 2002006550 A 20040622 BR 2002-6550
 20020107 <--
 JP 2004521888 T 20040722 JP 2002-557210
 20020107 <--
 CN 1714645 A 20060104 CN 2005-10084426
 20020107 <--
 CN 100415097 C 20080903
 CN 1245877 C 20060322 CN 2002-803928
 20020107 <--
 ES 2296903 T3 20080501 ES 2002-709996
 20020107 <--
 EG 23181 A 20040630 EG 2002-47
 20020115 <--
 TW 244892 B 20051211 TW 2002-91100634
 20020117 <--
 KR 857843 B1 20080910 KR 2003-708774
 20030627 <--
 ZA 2003005484 A 20040906 ZA 2003-5484
 20030716 <--
 MX 2003006481 A 20041015 MX 2003-6481
 20030718 <--
 US 20040063703 A1 20040401 US 2003-250877
 20030910 <--
 AU 2007203226 A1 20070802 AU 2007-203226
 20070710 <--
 PRIORITY APPLN. INFO.: DE 2001-10102544 A
 20010119 <--
 DE 2001-10134720 A
 20010717 <--
 AU 2002-228035 A3
 20020107 <--
 CN 2002-803928 A3
 20020107 <--
 WO 2002-EP59 W
 20020107 <--
 IC ICM A01N047-38
 ICS A01N047-38; A01N051-00; A01N047-42
 CC 5-4 (Agrochemical Bioregulators)
 ST synergism insecticide mixt sodium channel blocker
 IT Sodium channel blockers
 (mixts. containing; synergistic insecticidal compns.)
 IT Insecticides
 (synergistic; mixts. containing sodium channel blockers)
 IT 111988-49-9 138261-41-3, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-
 imidazolidinimine 210880-92-5
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (mixts. with sodium channel blockers; synergistic
 insecticidal compns.)
 IT 443096-57-9, Indoxacarb-imidacloprid mixture 443096-58-0,

Indoxacarb-clothianidin mixture 443096-60-4, Indoxacarb-thiacloprid mixture
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal composition)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L21 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic insecticidal and acaricidal compns. containing neem extract
AB The title compns. comprise neem seed extract and any of 35 known insecticides and acaricides.
ACCESSION NUMBER: 2002:428627 CAPLUS Full-text
DOCUMENT NUMBER: 137:1951
TITLE: Synergistic insecticidal and acaricidal compns. containing neem extract
INVENTOR(S): Baron, Gerhard; Kilian, Michael; Rosenfeldt, Frank
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002043496	A2	20020606	WO 2001-EP13340	
20011119 <--				
WO 2002043496	A3	20020829		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,				
UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10059606	A1	20020606	DE 2000-10059606	
20001201 <--				
AU 2002018304	A	20020611	AU 2002-18304	
20011119 <--				
EP 1339288	A2	20030903	EP 2001-998148	
20011119 <--				

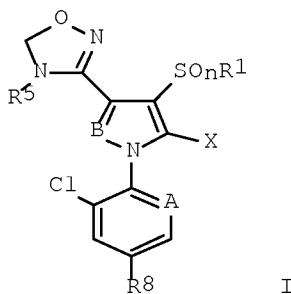
EP 1339288 B1 20070418
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 AT 359709 T 20070515 AT 2001-998148
 20011119 <--
 ES 2284731 T3 20071116 ES 2001-998148
 20011119 <--
 US 20040052878 A1 20040318 US 2003-432979
 20031003 <--
 PRIORITY APPLN. INFO.: DE 2000-10059606 A
 20001201 <--

L21 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic pesticides in rice paddies
 AB A synergistic pesticide contains an insecticide like clothianidin, a microbicide like isoprothiolane, and a herbicide. A number of Markush structures of pesticides are claimed.
 ACCESSION NUMBER: 2002:384278 CAPLUS Full-text
 DOCUMENT NUMBER: 136:381758
 TITLE: Synergistic pesticides in rice paddies
 INVENTOR(S): Akayama, Atsuo; Yamawaki, Takahiro
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
JP 2002145709	A	20020522	JP 2001-259699	
20010829 <--				
PRIORITY APPLN. INFO.: 20000830 <--			JP 2000-260812	A
OTHER SOURCE(S): MARPAT 136:381758				
IC ICM A01N047-38				
ICS A01N037-22; A01N037-24; A01N041-04; A01N043-10; A01N043-76;				
A01N043-78; A01N043-86; A01N047-12; A01N047-36; A01N051-00				
CC 5-3 (Agrochemical Bioregulators)				
ST synergism insecticide microbicide herbicide rice				
IT Fungicides				
Herbicides				
Insecticides				
Molluscicides				
(in synergistic pesticides for rice paddies)				
IT Pyricularia oryzae				
(synergistic pesticides for rice paddies for control of)				
IT 15263-52-2, Cartap hydrochloride 50512-35-1, Isoprothiolane				
122548-33-8, Imazosulfuron 125306-83-4, Cafenstrole 210880-92-5				
, Clothianidin				
RL: AGR (Agricultural use); BSU (Biological study, unclassified);				
BIOL (Biological study); USES (Uses)				
(in synergistic pesticides for rice paddies)				

IT 108-62-3, Metaldehyde 27605-76-1 41814-78-2 51218-49-6,
 Pretilachlor
 57369-32-1 73250-68-7, Mefenacet 79540-50-4, Etobenzanid
 85785-20-2,
 Esprocarb 88678-67-5, Pyributicarb 104030-54-8 110956-75-7,
 Pentoxazone 115852-48-7 135158-54-2 152542-38-6 153197-14-
 9,
 Oxaziclomefone 158237-07-1, Fentrazamide
 RL: AGR (Agricultural use); BSU (Biological study, unclassified);
 BIOL
 (Biological study); USES (Uses)
 (in synergistic pesticides in rice paddies)
 IT 427893-57-0
 RL: AGR (Agricultural use); BSU (Biological study, unclassified);
 BIOL
 (Biological study); USES (Uses)
 (synergistic pesticides for rice paddies)
 IT 220305-15-7 427893-58-1 427893-59-2 427893-60-5 427893-61-
 6
 427893-62-7 427893-63-8 427893-64-9 427893-65-0
 RL: AGR (Agricultural use); BSU (Biological study, unclassified);
 BIOL
 (Biological study); USES (Uses)
 (synergistic pesticides in rice paddies)

L21 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticidal compositions containing oxadiazoline
 derivatives, insect control, and enhancement of insecticidal
 action of the
 derivatives
 GI



AB Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6
 haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which
 may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl),
 N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be
 substituted with OH or C1-3 alkoxy), pyrrolyl; R5 =
 (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6
 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6

haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n = 1, R1 = R8 = CF₃, R5 = CONMe₂, A = CCl, B = N, X = N:CHOCHMe₂) (preparation given) and clothianidin showed synergistic action against *Plutella maculipennis* larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

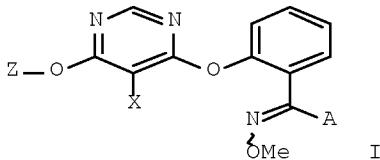
ACCESSION NUMBER: 2001:423412 CAPLUS Full-text
DOCUMENT NUMBER: 135:30294
TITLE: Synergistic insecticidal compositions containing oxadiazoline derivatives, insect control, and enhancement of insecticidal action of the derivatives
INVENTOR(S): Akayama, Atsuo
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
JP 2001158785 19991130 <--	A	20010612	JP 1999-340604	
PRIORITY APPLN. INFO.: 19991130 <--			JP 1999-340604	
OTHER SOURCE(S): MARPAT 135:30294				
IC ICM C07D413-04				
ICS A01N043-836; C07D413-14				
CC 5-4 (Agrochemical Bioregulators)				
Section cross-reference(s): 28				
ST oxadiazoline deriv synergistic insecticide; clothianidin				
oxadiazoline deriv synergistic insecticide				
IT Fungicides				
(agrochem.; preparation of insecticidal oxadiazoline derivs.				
and				
synergistic agrochem. insecticides containing them)				
IT Insecticides				
(preparation of insecticidal oxadiazoline derivs. and				
synergistic				
agrochem. insecticides containing them)				
IT Insecticides				
(synergistic; preparation of insecticidal oxadiazoline derivs.				
and				
synergistic agrochem. insecticides containing them)				

L21 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic fungicidal compositions.

GI



AB The title compns. comprise the pyrimidine derivs. I [Z = (un)substituted Ph; X = halo; A = heterocyclyl, CO₂Me or CHNHMe] and any of a large number of known fungicides.

ACCESSION NUMBER: 2000:349202 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 132:344443

TITLE: Synergistic fungicidal compositions.

INVENTOR(S): Mauler-Machnik, Astrid; Wachendorf-Neumann, Ulrike;

Gayer, Herbert

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

DE 19939841 19990823 <--	A1	20000525	DE 1999-19939841	
IN 1999B000745 19991102 <--	A	20050304	IN 1999-B0745	
CA 2351500 19991108 <--	A1	20000602	CA 1999-2351500	
WO 2000030440 19991108 <--	A2	20000602	WO 1999-EP8558	
WO 2000030440 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,	A3	20000831		
ID, IL, LV, MA, SG, SI,			CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW	
CY, DE, BJ, CF,	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,			

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2000010460	A	20000613	AU 2000-10460
19991108 <--			
AU 752441	B2	20020919	
BR 9915518	A	20010717	BR 1999-15518
19991108 <--			
EP 1130963	A2	20010912	EP 1999-953975
19991108 <--			
EP 1130963	B1	20050302	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
IE, SI, LT, LV, FI, RO			
TR 200101379	T2	20011121	TR 2001-1379
19991108 <--			
HU 2001004483	A2	20020328	HU 2001-4483
19991108 <--			
HU 2001004483	A3	20020429	
TR 200103810	T2	20020621	TR 2001-3810
19991108 <--			
TR 200103811	T2	20020621	TR 2001-3811
19991108 <--			
JP 2002530297	T	20020917	JP 2000-583338
19991108 <--			
CN 1157118	C	20040714	CN 1999-813518
19991108 <--			
EP 1506711	A2	20050216	EP 2004-24463
19991108 <--			
EP 1506711	A3	20050427	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
IE, FI, CY			
AT 289750	T	20050315	AT 1999-953975
19991108 <--			
PT 1130963	T	20050630	PT 1999-953975
19991108 <--			
ES 2238853	T3	20050901	ES 1999-953975
19991108 <--			
TW 521994	B	20030301	TW 1999-88119807
19991115 <--			
US 6559136	B1	20030506	US 2001-856023
20010516 <--			
MX 2001005029	A	20000827	MX 2001-5029
20010518 <--			
US 20030161896	A1	20030828	US 2003-371770
20030221 <--			
PRIORITY APPLN. INFO.:			DE 1998-19853559 A1
19981120 <--			DE 1999-19939841 A
19990823 <--			EP 1999-953975 A3
19991108 <--			WO 1999-EP8558 W
19991108 <--			US 2001-856023 A3
20010516 <--			
OTHER SOURCE(S):	MARPAT 132:344443		
IC ICM A01N043-54			

CC 5-2 (Agrochemical Bioregulators)
ST pyrimidine deriv fungicide synergism
IT Fungicides
(synergistic; compns. containing pyrimidine derivs.)

=> s 119 and acetylcholin?

613 L19

99752 ACETYLCHOLIN?

L22 41 L19 AND ACETYLCHOLIN?

=> s 122 and (agonist? or antagonist?)

174079 AGONIST?

273680 ANTAGONIST?

L23 31 L22 AND (AGONIST? OR ANTAGONIST?)

=> s 123 and (py<2003 or ay<2003 or pry<2003)

22983883 PY<2003

4506011 AY<2003

3975367 PRY<2003

L24 5 L23 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 124 ibib abs ti hitind

L24 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:175092 CAPLUS Full-text
DOCUMENT NUMBER: 138:349994
TITLE: Clothianidin: a novel broad-spectrum neonicotinoid insecticide
AUTHOR(S): Ohkawara, Y.; Akayama, A.; Matsuda, K.; Andersch, W.
CORPORATE SOURCE: Takeda Chemical Industries, Ltd., Tsukuba, Ibaraki, 300-4293, Japan
SOURCE: BCPC Conference--Pests & Diseases (2002), (Vol. 1), 51-58
CODEN: BCDCAE
PUBLISHER: British Crop Protection Council
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Clothianidin (TI-435) is a novel neonicotinoid insecticide, acting as an agonist of nicotinic acetylcholine receptor (nAChR). This compound has minimal adverse effects against vertebrates. The potent agonistic action of clothianidin was observed only on insect nAChR, but not on vertebrate ones, indicating that the compound has selective toxicity for insects over vertebrates. Laboratory studies have demonstrated that clothianidin is highly active against not only hemipterous insects but also coleopterous, thysanopterous, dipterous and some lepidopterous pests. Since this compound possesses excellent root systemic properties, it can be used by various application methods. In field trials, clothianidin exhibited excellent control of insect pests by foliar application, paddy water application, soil application and seed treatment. Because of its broad spectrum of insecticidal activity, good systemic properties and low mammalian toxicity, clothianidin is a compound that is considered to be compatible with integrated pest management strategies.

TI Clothianidin: a novel broad-spectrum neonicotinoid insecticide
CC 5-4 (Agrochemical Bioregulators)
IT 210880-92-5, Clothianidin:
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(clothianidin as broad-spectrum neonicotinoid insecticide)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

=> d 124 ibib abs ti hitind 2-5

L24 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:586328 CAPLUS Full-text
DOCUMENT NUMBER: 138:132444
TITLE: Evaluation of affinity of neonicotinoid
insecticides
for rat brain nicotinic acetylcholine
receptors by [3H] epibatidine-binding assay
AUTHOR(S): Okumoto, Takashi; Ozoe, Yoshihisa
CORPORATE SOURCE: Department of Life Science and Biotechnology,
Faculty
of Life and Environmental Science, Shimane
University,
Matsue, Shimane, 690-8504, Japan
SOURCE: Nippon Noyaku Gakkaishi (2002), 27(2),
145-146
CODEN: NNGADV; ISSN: 0385-1559
PUBLISHER: Nippon Noyaku Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The affinity of neonicotinoids for rat brain nAChRs was evaluated
under the optimized (3H)EPI-binding conditions. Imidacloprid,
acetamiprid, and clothianidin exhibited higher activity than did
the other compds.; these three compds. at 10 μ M inhibited specific
(3H)EPI binding by 60.6, 56.3, and 33.6% resp. The other
compds., including the enantiomers of dinotefuran, had little
inhibitory activity at 10 μ M, indicating almost no significant
interaction with α 4 β 2-nAChRs in rat brain. Given that the IC50
values of imidacloprid and acetamiprid are approx. 10 μ M, the Ki
values, calculated according to the Cheng-Prusoff equation, was
.apprx.5 μ M. Electrophysiolog., imidacloprid was reported to be a
partial agonist with an EC₅₀ of >79 μ M in chicken α 4 β 2-nAChRs
expressed in Xenopus oocytes. The rank order in terms of activity
in vitro of the tested compds. appears to be in general agreement
with that of their acute oral toxicity in rats, as well as that of
their potency measured based on (3H)nicotine binding to rat
recombinant α 4 β 2-nAChRs. Considering the range of nanomolar
activity of these compds. in (3H) EPI assays using a cockroach
nerve preparation, the data presented here indicate that all
tested compds. are highly selective for cockroach nAChRs vs. rat
 α 4 β 2-nAChRs.
TI Evaluation of affinity of neonicotinoid insecticides for rat brain
nicotinic acetylcholine receptors by [3H] epibatidine-binding

assay
CC 4-4 (Toxicology)
Section cross-reference(s): 5
IT Brain
(evaluation of affinity of neonicotinoid insecticides for rat brain
nicotinic acetylcholine receptors by epibatidine-binding assay)
IT Nicotinic receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(evaluation of affinity of neonicotinoid insecticides for rat brain
nicotinic acetylcholine receptors by epibatidine-binding assay)
IT Insecticides
(neonicotinoid; evaluation of affinity of neonicotinoid insecticides
for rat brain nicotinic acetylcholine receptors by epibatidine-binding assay)
IT 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid 150824-47-8,
Nitenpyram 153719-23-4, Thiamethoxam 165252-70-0, Dinotefuran
210880-92-5, Clothianidin 322639-07-6, (S)-Dinotefuran
406466-53-3
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(evaluation of affinity of neonicotinoid insecticides for rat brain
nicotinic acetylcholine receptors by epibatidine-binding assay)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L24 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:108925 CAPLUS Full-text
DOCUMENT NUMBER: 136:274771
TITLE: Interaction of dinotefuran and its analogues
with
nicotinic acetylcholine receptors of
cockroach nerve cords
AUTHOR(S): Mori, Kazuki; Okumoto, Takashi; Kawahara,
Nobuyuki;
Ozoe, Yoshihisa
CORPORATE SOURCE: Department of Life Science and Biotechnology,
Shimane
University, Shimane, 690-8504, Japan
SOURCE: Pest Management Science (2002), 58(2),
190-196
CODEN: PMSCFC; ISSN: 1526-498X
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB To investigate the action of dinotefuran (MTI-446, 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine), a recently developed insecticide, on insect nicotinic acetylcholine receptors (nAChRs),

we determined the potencies of the compound and 22 analogs in inhibiting the specific binding of [³H]epibatidine (EPI), a nAChR agonist, and [³H] α -bungarotoxin (α -BGT), a comparative nAChR antagonist, to the nerve cord membranes of American cockroaches (*Periplaneta americana*). Racemic dinotefuran inhibited [³H]EPI binding with an IC₅₀ of 890 nM and [³H] α -BGT binding with an IC₅₀ of 36.1 μ M. Scatchard anal. indicated that the dinotefuran inhibition of [³H]EPI binding was a competitive one. Slight structural modification caused a drastic reduction in potency; only four analogs were found to be equipotent to or more potent than dinotefuran. Chloropyridinyl and chlorothiazolyl neonicotinoid insecticides displayed two or three orders of magnitude higher potency than dinotefuran. There was a good correlation between the IC₅₀ values of tested compds. obtained with [³H]EPI and those obtained with [³H] α -BGT. A better correlation was observed between 3-h knockdown activities (KD₅₀) against German cockroaches (*Blattella germanica*) and IC₅₀ values obtained from [³H]EPI assays than between 24-h lethal activities (LD₅₀) and IC₅₀ values. While the results indicate that dinotefuran and its analogs interact with the ACh-binding site in cockroach nAChRs, it remains to be elucidated why they displayed lower potencies than those expected based on their insecticidal activities.

- TI Interaction of dinotefuran and its analogues with nicotinic acetylcholine receptors of cockroach nerve cords
- CC 5-4 (Agrochemical Bioregulators)
- ST dinotefuran insecticide nicotinic acetylcholine receptor cockroach; neonicotinoid insecticide *Periplaneta* nerve cord
- IT Structure-activity relationship
 - (insecticidal; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
- IT *Periplaneta americana*
 - (interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
- IT Nicotinic receptors
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
- IT Insecticides
 - (neonicotinoid; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
- IT Nervous system
 - (nerve cord; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
- IT Structure-activity relationship
 - (nicotinic receptor-binding; interaction of dinotefuran and its analogs
 - with nicotinic acetylcholine receptors of cockroach nerve cords)

IT	165252-51-7	165252-70-0, Dinotefuran	165252-73-3	165252-87-9
	165253-05-4	165253-10-1	168688-99-1	174458-00-5
8	182426-48-8	183050-37-5	185043-87-2	201141-17-5
6	406466-23-7	406466-24-8	406466-26-0	406466-28-2
				406466-31-

7 406466-37-3 406466-40-8 406466-44-2 406466-50-0 406466-53-
 3
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (interaction with nicotinic acetylcholine receptors of
 cockroach nerve cords)
 IT 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid 150824-47-
 8,
 Nitenpyram 153719-23-4, Thiamethoxam 210880-92-5, Clothianidin
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (interaction with nicotinic acetylcholine receptors of
 cockroach nerve cords as compared to dinotefuran and its
 analogues)
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE
 FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L24 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:549118 CAPLUS Full-text
 DOCUMENT NUMBER: 131:181124
 TITLE: Aqueous formulations for combating parasitic
 insects
 and acarina on humans
 INVENTOR(S): Sirinyan, Kirkor; Horn, Karin; Stocker, Ronald
 Helmut;
 Sonneck, Rainer
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 45 pp.
 CODEN: PIXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 9941987	A1	19990826	WO 1999-EP878	
19990210 <--				
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,	DK, EE, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,			
MK, MN,	KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,			
DK, ES,	TR, TT, UA, UG, US, UZ, VN, YU, ZW RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, CG, CI,			
DE 19807630	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG DE 1998-19807630	A1	19990826	DE 1998-19807630
19990223 <--	CA 2321206	A1	19990826	CA 1999-2321206

19990210 <--				
AU 9925230	A	19990906	AU 1999-25230	
19990210 <--				
AU 739980	B2	20011025		
BR 9908197	A	20001024	BR 1999-8197	
19990210 <--				
TR 200002441	T2	20001121	TR 2000-2441	
19990210 <--				
EP 1056342	A1	20001206	EP 1999-904877	
19990210 <--				
EP 1056342	B1	20030820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
MC, PT,				
IE, FI				
HU 2001000959	A2	20010828	HU 2001-959	
19990210 <--				
JP 2002503682	T	20020205	JP 2000-532014	
19990210 <--				
AT 247384	T	20030915	AT 1999-904877	
19990210 <--				
PT 1056342	T	20031231	PT 1999-904877	
19990210 <--				
ES 2205770	T3	20040501	ES 1999-904877	
19990210 <--				
CN 1294812	C	20070117	CN 1999-803231	
19990210 <--				
ZA 9901384	A	19990823	ZA 1999-1384	
19990222 <--				
IN 2000MN00226	A	20050715	IN 2000-MN226	
20000727 <--				
US 6369054	B1	20020409	US 2000-601572	
20000803 <--				
MX 2000008052	A	20010405	MX 2000-8052	
20000817 <--				
HK 1035993	A1	20070914	HK 2001-107011	
20011005 <--				
PRIORITY APPLN. INFO.:			DE 1998-19807630	A
19980223 <--			WO 1999-EP878	W

19990210 <--

OTHER SOURCE(S): MARPAT 131:181124

AB The invention relates to aqueous formulations for combating parasitic insects and acarina on the skin of human beings, having the following composition: agonists or antagonists of nicotinic acetylcholine receptors of insects, such as imidacloprid, at 0.0001-7.5 weight %; water, at 20-50 weight %; acyclic alcs., at 20-50 weight %; solvents from the group of cyclic carbonates or lactones,.5-20.0 weight %; and, optionally, other adjuvants from the group of thickening agents, antioxidants, expanding agents, preserving agents, deposit builders and emulsifiers, at ≥30 weight %.

TI Aqueous formulations for combating parasitic insects and acarina on humans

IC ICM A01N051-00
ICS A01N061-00; A01N051-00; A01N043-08; A01N031-02; A01N025-02;
A01N061-00; A01N043-08; A01N031-02; A01N025-02

CC 5-4 (Agrochemical Bioregulators)

L24 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:549117 CAPLUS Full-text
DOCUMENT NUMBER: 131:166526
TITLE: Aqueous formulations of animal
ectoparasiticides
INVENTOR(S): Sirinyan, Kirkor; Dorn, Hubert; Heukamp,
Ulrich
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9941986 19990210 <--	A1	19990826	WO 1999-EP875	
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,	DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,	KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,	MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,	TR, TT, UA, UG, US, UZ, VN, YU, ZW RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,

	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI,	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
DE 19807633	A1 19990826 DE 1998-19807633
19980223 <-- CA 2321209	A1 19990826 CA 1999-2321209
19990210 <-- AU 9926230	A 19990906 AU 1999-26230
19990210 <-- AU 750954	B2 20020801
BR 9908173	A 20001031 BR 1999-8173
19990210 <-- EP 1056343	A1 20001206 EP 1999-906223
19990210 <-- EP 1056343	B1 20041013
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT,	
IE, SI,	LT, LV, FI, RO
TR 200002443	T2 20001221 TR 2000-2443
19990210 <-- HU 2001000790	A2 20010828 HU 2001-790
19990210 <-- JP 2002503681	T 20020205 JP 2000-532013
19990210 <-- EE 200000485	A 20020215 EE 2000-485
19990210 <-- NZ 506460	A 20030131 NZ 1999-506460
19990210 <-- TW 581660	B 20040401 TW 1999-88102018
19990210 <-- RU 2232505	C2 20040720 RU 2000-124395
19990210 <-- AT 279114	T 20041015 AT 1999-906223
19990210 <-- PT 1056343	T 20050131 PT 1999-906223
19990210 <-- ES 2230835	T3 20050501 ES 1999-906223
19990210 <-- IL 137618	A 20060820 IL 1999-137618
19990210 <-- CN 1328958	C 20070801 CN 1999-805324
19990210 <-- ZA 9901385	A 19990823 ZA 1999-1385
19990222 <-- BG 104690	A 20011031 BG 2000-104690
20000815 <-- BG 64814	B1 20060531
MX 2000008051	A 20010405 MX 2000-8051
20000817 <-- NO 2000004188	A 2001023 NO 2000-4188
20000822 <-- NO 324076	B1 20070806
HK 1037479	A1 20080523 HK 2001-108376
20011128 <-- US 20030162773	A1 20030828 US 2003-347003
20030117 <-- US 7384938	B2 20080610

PRIORITY APPLN. INFO.:	DE 1998-19807633	A
19980223 <--		
19990210 <--	WO 1999-EP875	W
20000821 <--	US 2000-622660	B1

OTHER SOURCE(S): MARPAT 131:166526

AB The invention relates to aqueous formulations for combating parasitic insects and acarina on the skin of animals, having the following composition: (a) agonists or antagonists of nicotinic acetylcholine receptors of insects, at 1-20 weight %; (b) water, at 2.5-15 weight %; (c) solvents from the group of alcs., such as benzyl alc., tetrahydrofurfuryl alc. or optionally-substituted pyrrolidone, at ≥20 weight %; (d) solvents from the group of the cyclic carbonates or lactones, at 5-50.0 weight %; (e) optionally, other adjuvants from the group of the thickening agents, spreading agents, colorants, antioxidants, expanding agents, preserving agents, deposit builders and emulsifiers, at 0.025-10 weight %.

TI Aqueous formulations of animal ectoparasiticides

IC ICM A01N051-00
ICS A01N061-00; A01N051-00; A01N043-36; A01N043-08; A01N031-04;
A01N025-02; A01N061-00; A01N043-36; A01N043-08; A01N031-04;
A01N025-02

CC 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 2

IT Nicotinic agonists
Nicotinic antagonists
(in aqueous formulations of animal ectoparasiticides)

IT	58842-20-9	101336-63-4	101336-64-5	105827-70-1	105828-97-5
	105843-35-4	105843-36-5	111988-43-3	111988-49-9	111988-51-
3	120738-88-7	120738-89-8	131748-47-5	131748-49-7	131748-54-
4	131748-55-5	131768-12-2	135410-20-7	135410-92-3	136516-18-
2	136516-19-3, AKD 1022	138261-41-3, Imidacloprid	138681-61-5		
0	153719-22-3	153719-23-4	165252-70-0	165253-13-4	171103-03-
2	171103-04-1	172333-79-8	172333-80-1	172333-81-2	185043-87-
	210880-92-5, Ti 435				

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=> e 500008-45-7/rn
E1      1      500008-43-5/RN
E2      1      500008-44-6/RN
E3      1 --> 500008-45-7/RN
E4      1      500008-46-8/RN
E5      1      500008-47-9/RN
E6      1      500008-48-0/RN
E7      1      500008-49-1/RN
E8      1      500008-50-4/RN
E9      1      500008-51-5/RN
E10     1      500008-52-6/RN
E11     1      500008-53-7/RN
E12     1      500008-54-8/RN
```

```

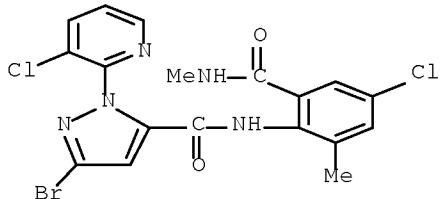
=> set expand continuous
SET COMMAND COMPLETED

=> s e3
L1          1 500008-45-7/RN

=> d 11

L1      ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN      500008-45-7  REGISTRY
ED      Entered STN: 19 Mar 2003
CN      1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
      [ (methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA
INDEX NAME)
OTHER NAMES:
CN      Altacor
CN      Chlorantraniliprole
CN      Coragen
CN      DKI 0001
CN      DPX-E 2Y45
CN      E 2Y45
CN      Rynaxypyr
DR      921612-71-7
MF      C18 H14 Br Cl2 N5 O2
CI      COM
SR      CA
LC      STN Files: ANABSTR, CA, CAPLUS, CASREACT, CBNB, RTECS*, TOXCENTER,
      USPAT2, USPATFULL
      (*File contains numerically searchable property data)

```



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

```

=> s 11
L2          271 L1

=> s 12 and (py<2003 or ay<2003 or pry<2003)
22983883 PY<2003
4506011 AY<2003
3975367 PRY<2003

```

L3 5 L2 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 13 ibib abs ti hitind 1-5

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:270097 CAPLUS Full-text
DOCUMENT NUMBER: 140:282468
TITLE: Cloning and characterization of insect
ryanodine
insecticidal receptors and their use for screening for
compounds
INVENTOR(S): Caspar, Timothy; Cordova, Daniel; Gutteridge,
Steven;
Tao, Rauh, James J.; Smith, Rejane M.; Wu, Lihong;
Yong
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 731 pp.
CODEN: PIIXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
WO 2004027042 20030923 <--	A2	20040401	WO 2003-US29834	
WO 2004027042 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, GE, GH, LK, LR, NZ, OM, TM, TN, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW AZ, BY, EE, ES, SK, TR, TD, TG	A3	20041118 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,		
AU 2003275128 20030923 <--	A1	20040408	AU 2003-275128	
US 20040171114 20030923 <--	A1	20040902	US 2003-668767	
US 7205147 EP 1546183 20030923 <--	B2 A2	20070417 20050629	EP 2003-759396	

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
JP 2006516884 T 20060713 JP 2004-538401
20030923 <--
US 20070105098 A1 20070510 US 2005-528611
20050321 <--
US 7498408 B2 20090303
US 20070161037 A1 20070712 US 2007-715725
20070308 <--
PRIORITY APPLN. INFO.: US 2002-412795P P
20020923 <-- US 2002-427324P P
20021118 <-- US 2003-668767 A3
20030923 WO 2003-US29834 W
20030923

AB The genes encoding ryanodine receptor homologs are provided from multiple insect families including lepidopteran tobacco budworm (*Heliothis virescens*), homopteran green peach aphid (*Myzus persicae*), corn plant hopper (*Peregrinus maidis*), cotton melon aphid (*Aphis gossypii*), and fruitfly (*Drosophila melanogaster*). The full-length genes were isolated, cloned, and amplified in bacterial cells. Expression in insect cells shows that the recombinant protein folds into a functional calcium release channel. The genes and their corresponding polypeptides have a number of uses including, but not limited to, the isolation of other pest ryanodine receptors, the development of screens to identify insecticidally active compds., use of fragments of genes as pesticides, fragments of protein for antibody production, fragments of protein for determination of the structure of insecticide binding sites, and identification of insecticides that disrupt the calcium balance in cells through other messengers that interact with the receptor calcium release mechanism. Methods are outlined for overcoming toxic effects of expressing recombinant proteins in host cells.

TI Cloning and characterization of insect ryanodine receptors and their use

for screening for insecticidal compounds

IC ICM C12N

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 5, 6, 12

IT 58-08-2, Caffeine, biological studies 11103-72-3, Ruthenium red 15662-33-6, Ryanodine 23214-92-8, Doxorubicin 101927-49-5 362637-84-1 362637-97-6 362639-17-6 362639-45-0 362639-48-

3 362639-62-1 362639-69-8 438450-41-0 500005-94-7 500006-21-

3 500007-97-6 500008-00-4 500008-14-0 500008-29-7 500008-36-

6 500008-44-6 500008-45-7 500008-60-6 500008-62-8

675826-03-6 675826-04-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (cloning and characterization of insect ryanodine receptors and their use for screening for insecticidal compds.)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:101149 CAPLUS Full-text
DOCUMENT NUMBER: 140:146150
TITLE: Method for preparing fused oxazinones by
cyclocondensation of ortho-amino aromatic
carboxylic acids with carboxylic acids
INVENTOR(S): Taylor, Eric Deguyon
PATENT ASSIGNEE(S): E.I. Du Pont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011447 20030729 <--	A2	20040205	WO 2003-US23821	
WO 2004011447 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, GE, GH, LK, LR, NZ, OM, TM, TN, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AZ, BY, EE, ES, SK, TR, TD, TG	A3	20040318		
AU 2003257028 20030729 <--	A1	20040216	AU 2003-257028	
EP 1549643 20030729 <--	A2	20050706	EP 2003-772097	
EP 1549643 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	B1	20070829		
BR 2003013341 20030729 <--	A	20050712	BR 2003-13341	
CN 1671703	A	20050921	CN 2003-818202	

20030729 <--					
CN 100422177	C	20081001			
JP 2006501203	T	20060112	JP 2004-524204		
20030729 <--					
AT 371657	T	20070915	AT 2003-772097		
20030729 <--					
ES 2293040	T3	20080316	ES 2003-772097		
20030729 <--					
US 20050215785	A1	20050929	US 2004-518324		
20041215 <--					
US 7339057	B2	20080304			
PRIORITY APPLN. INFO.:			US 2002-400352P	P	
20020731 <--			US 2003-446438P	P	
20030211			WO 2003-US23821	W	
20030729					
OTHER SOURCE(S):	MARPAT	140:146150			
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

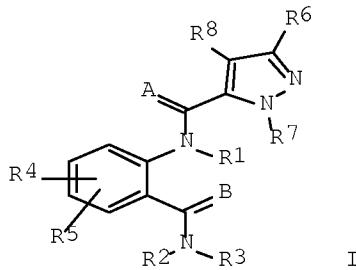
AB A method for preparing a fused oxazinone [I; J = an optionally substituted carbon moiety; K together with the two contiguous linking carbon atoms = each (un)substituted a fused Ph ring or a fused 5- or 6-membered heteroarom. ring] is disclosed in which (1) a carboxylic acid of formula J-CO₂H is contacted with a sulfonyl chloride of formula LS(O)₂C₁ [L= each (un)substituted alkyl, haloalkyl, or Ph] in the presence of an optionally substituted pyridine compound, the nominal mole ratio of sulfonyl chloride to carboxylic acid being from about 0.75 to 1.5; (2) the mixture prepared in (1) is contacted with an ortho-amino aromatic carboxylic acid in the presence of an optionally substituted pyridine compound, the nominal mole ratio of the ortho-amino aromatic carboxylic acid to carboxylic acid (II; K = same as above) charged in (1) being from about 0.8 to 1.2; and (3) addnl. sulfonyl chloride is added to the mixture prepared in (2), the nominal mole ratio of addnl. sulfonyl chloride added in (3) to carboxylic acid charged in (1) being at least about 0.5. More specifically disclosed is a method for preparing a compound of formula (III) [X = N, CR₆; Y = N, CH; R₁ = H, R₂ = H, Me; R₃ = C₁₋₆ alkyl; R₄ = C₁₋₄ alkyl, halo; R₅ = H, C₁₋₄ alkyl, C₁₋₄ haloalkyl, halo; R₆, R₇ = H, C₁₋₄ alkyl, C₁₋₄ haloalkyl, halo, cyano, C₁₋₄ haloalkyl; R₈ = H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₃₋₆ cycloalkyl, C₁₋₄ haloalkyl, C₂₋₄ haloalkenyl, C₂₋₄ haloalkynyl, C₃₋₆ halocycloalkyl, halogen, cyano, NO₂, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, C₁₋₄ alkylthio, C₁₋₄ alkylsulfinyl, C₁₋₄ alkylsulfonyl, C₁₋₄ alkylamino, C₂₋₈ dialkylamino, C₃₋₆ cycloalkylamino, (C₁₋₄ alkyl)(C₃₋₆ cycloalkyl)amino, etc.; R₉ = CF₃, OCF₃, OCHF₂, OCH₂CF₃, S(O)pCF₃, S(O)pCHF₂, halo; p = 0-2] using a compound of formula (IV; R₁-R₅ = same as above; R₇-R₉ = same as above; X, Y = same as above) that is characterized by preparing the fused oxazinone IV by the method above, using a

compound of the formula LS(O)2Cl as the sulfonyl chloride, a compound of formula (V) (R7-R9 = same as above) as the carboxylic acid, and a compound of formula (VI) (R4, R5 = same as above) as the ortho-amino aromatic carboxylic acid.

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:242097 CAPLUS Full-text
DOCUMENT NUMBER: 138:267201
TITLE: Pesticidal compositions for coating plant propagation
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2003024222	A1	20030327	WO 2002-US30302	
20020910 <--				
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
				UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
				KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
				FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
TW 283164	CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG B	20070701	TW 2002-91118199	
20020813 <--				
CA 2458163	A1	20030327	CA 2002-2458163	
20020910 <--				
AU 2002341819	B9	20030401	AU 2002-341819	
20020910 <--				
AU 2002341819	A1	20030401		
AU 2002341819	B2	20070719		
EP 1427285	A1	20040616	EP 2002-775972	
20020910 <--				
EP 1427285	B1	20070822		
MC, PT,	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			

BR 2002012993	A	20040817	BR 2002-12993
20020910 <--			
JP 2005502716	T	20050127	JP 2003-528126
20020910 <--			
JP 3770495	B2	20060426	
HU 2004001893	A2	20050128	HU 2004-1893
20020910 <--			
HU 2004001893	A3	20051128	
NZ 532269	A	20051028	NZ 2002-532269
20020910 <--			
CN 1713819	A	20051228	CN 2002-818578
20020910 <--			
RU 2292138	C2	20070127	RU 2004-111986
20020910 <--			
AT 370656	T	20070915	AT 2002-775972
20020910 <--			
ES 2291500	T3	20080301	ES 2002-775972
20020910 <--			
ZA 2004000413	A	20050120	ZA 2004-413
20040120 <--			
US 20040209923	A1	20041021	US 2004-485125
20040126 <--			
IN 2004MN00090	A	20070706	IN 2004-MN90
20040205 <--			
MX 2004002648	A	20040607	MX 2004-2648
20040319 <--			
KR 783260	B1	20071206	KR 2004-704134
20040320 <--			
IN 2005MN00443	A	20050930	IN 2005-MN443
20050517 <--			
PRIORITY APPLN. INFO.:			US 2001-323941P P
20010921 <--			WO 2002-US30302 W
20020910 <--			
OTHER SOURCE(S) :	MARPAT 138:267201		
GI			



AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an

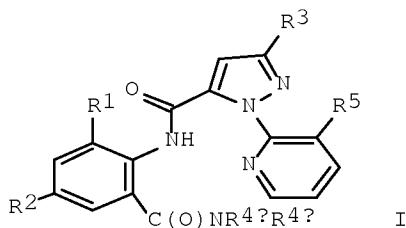
agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:154155 CAPLUS Full-text
 DOCUMENT NUMBER: 138:200332
 TITLE: Arthropodicidal anthranilamides
 INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul;
 Stevenson,
 Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2003015519 20020813 <--	A1	20030227	WO 2002-US25615	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
GE, GH,	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,			
LK, LR,	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			
OM, PH,	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,			
TT, TZ,	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR,			
	UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
BE, BG,	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT,			
MC, NL,	CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU,			
ML, MR,	PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,			
NE, SN, TD, TG				
EG 23419 20020810 <--	A	20050704	EG 2002-893	
TW 225774 20020812 <--	B	20050101	TW 2002-91118100	
CA 2454485 20020813 <--	A1	20030227	CA 2002-2454485	
AU 2002355953	A1	20030303	AU 2002-355953	

20020813 <--
 AU 2002355953 B2 20070125
 EP 1416797 A1 20040512 EP 2002-752811
 20020813 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 BR 2002012023 A 20040803 BR 2002-12023
 20020813 <--
 JP 2004538328 T 20041224 JP 2003-520290
 20020813 <--
 JP 3729825 B2 20051221
 NZ 530443 A 20050729 NZ 2002-530443
 20020813 <--
 ZA 2004000033 A 20050803 ZA 2004-33
 20020813 <--
 ZA 2004000034 A 20050803 ZA 2004-34
 20020813 <--
 CN 1678192 A 20051005 CN 2002-815924
 20020813 <--
 CN 100391338 C 20080604
 RU 2283840 C2 20060920 RU 2004-107505
 20020813 <--
 HU 2006000675 A2 20070129 HU 2006-675
 20020813 <--
 EP 1944304 A1 20080716 EP 2008-6481
 20020813 <--
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
 IE, IT,
 LI, LU, MC, NL, PT, SE, SK, TR
 ZA 2003009911 A 20050311 ZA 2003-9911
 20031222 <--
 US 20040198984 A1 20041007 US 2004-483168
 20040107 <--
 US 7232836 B2 20070619
 IN 2004MN00015 A 20061222 IN 2004-MN15
 20040108 <--
 MX 2004001320 A 20040520 MX 2004-1320
 20040211 <--
 JP 2005041880 A 20050217 JP 2004-258923
 20040906 <--
 IN 2005MN00444 A 20050930 IN 2005-MN444
 20050517 <--
 US 20070225336 A1 20070927 US 2007-787770
 20070418 <--
 PRIORITY APPLN. INFO.: US 2001-311919P P
 20010813 <--
 US 2001-324128P P
 20010921 <--
 US 2002-369661P P
 20020402 <--
 US 2001-341894P P
 20011219 <--
 US 2002-369659P P
 20020402 <--
 EP 2002-750482 A3
 20020813 <--

20020813 <--	JP 2003-520290	A3
20020813 <--	WO 2002-US25615	W
20040107	US 2004-483168	A3
20040108	IN 2004-MN15	A3
OTHER SOURCE(S): GI	MARPAT 138:200332	

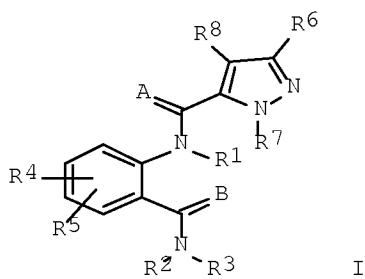


AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. *aizawai*, *B. thuringiensis* sp. *kurstaki*, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:154154 CAPLUS Full-text
 DOCUMENT NUMBER: 138:200331
 TITLE: Method for controlling particular insect pests
 by applying anthranilamide compounds
 INVENTOR(S): Lahm, George Philip; McCann, Stephen
 Frederick; Patel,
 Kanu Maganbhai; Selby, Thomas Paul; Stevenson,
 Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 150 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2003015518 20020813 <--	A1	20030227	WO 2002-US25613	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
GE, GH,				
LK, LR,				
OM, PH,				
TT, TZ,				
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,				
MC, NL,				
ML, MR,				
NE, SN, TD, TG				
CA 2454302 20020813 <--	A1	20030227	CA 2002-2454302	
AU 2002355951 20020813 <--	A1	20030303	AU 2002-355951	
AU 2002355951 EP 1416796 20020813 <--	B2	20071206		
EP 1416796	A1	20040512	EP 2002-752809	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
HU 2004001043 20020813 <--	A2	20040928	HU 2004-1043	
HU 2004001043 BR 2002012187 20020813 <--	A3	20051128		
BR 2002012187	A	20041005	BR 2002-12187	
CN 1541063 20020813 <--	A	20041027	CN 2002-815930	
JP 2004538327 20020813 <--	T	20041224	JP 2003-520289	
JP 3689817 ZA 2004000033 20020813 <--	B2	20050831		
ZA 2004000033	A	20050803	ZA 2004-33	
ZA 2004000034 20020813 <--	A	20050803	ZA 2004-34	
RU 2262231 20020813 <--	C1	20051020	RU 2004-107513	
NZ 530442 20020813 <--	A	20060728	NZ 2002-530442	
EP 1944304 20020813 <--	A1	20080716	EP 2008-6481	
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, SK, TR				

ZA 2003009911	A	20050311	ZA 2003-9911
20031222 <--			
US 20050075372	A1	20050407	US 2004-483115
20040107 <--			
IN 2004MN00013	A	20070309	IN 2004-MN13
20040108 <--			
MX 2004001322	A	20040520	MX 2004-1322
20040211 <--			
KR 847202	B1	20080717	KR 2004-702163
20040213 <--			
JP 2005041880	A	20050217	JP 2004-258923
20040906 <--			
IN 2005MN00438	A	20051202	IN 2005-MN438
20050517 <--			
US 20080275061	A1	20081106	US 2008-141170
20080618 <--			
PRIORITY APPLN. INFO.:			US 2001-311919P P
20010813 <--			US 2001-324173P P
20010921 <--			US 2001-324128P P
20010921 <--			US 2001-341894P P
20011219 <--			US 2002-369659P P
20020402 <--			US 2002-369661P P
20020402 <--			EP 2002-750482 A3
20020813 <--			JP 2003-520290 A3
20020813 <--			WO 2002-US25613 W
20020813 <--			US 2004-483115 A1
20040107			IN 2004-MN13 A3
20040108			
OTHER SOURCE(S) :	MARPAT 138:200331		
GI			



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e 210880-92-5/rn
E13 1 210880-90-3/RN
E14 1 210880-91-4/RN
E15 1 --> 210880-92-5/RN
E16 1 210880-93-6/RN
E17 1 210880-94-7/RN
E18 1 210880-95-8/RN
E19 1 210880-96-9/RN
E20 1 210880-97-0/RN
E21 1 210880-98-1/RN
E22 1 210880-99-2/RN
E23 1 210881-00-8/RN
E24 1 210881-01-9/RN

=> s e15
L4 1 210880-92-5/RN

=> d 14

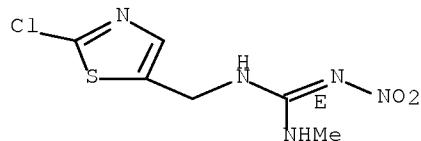
L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 210880-92-5 REGISTRY
ED Entered STN: 06 Sep 1998
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-,
[C(E)]-
(CA INDEX NAME)

OTHER NAMES:

CN Apacz
CN Arena
CN Belay
CN Celero
CN Clothianidin
CN Clutch
CN Clutch (insecticide)
CN Dantotsu
CN Fullswing
CN Poncho
CN Takeloc CLMN 10
CN Takeloc MC 50E
CN TI 435
CN TM 44401
CN V 10170
FS STEREOSEARCH
DR 205510-53-8
MF C6 H8 Cl N5 O2 S

CI COM
 SR CA
 LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
 CHEMCATS,
 CHEMLIST, CSCHEM, HSDB*, MRCK*, PATDPASPC, RTECS*, TOXCENTER,
 ULIDAT,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Double bond geometry as shown.



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

```

=> s 14
L5          613 L4

=> s 15 and (py<2003 or ay<2003 or pry<2003)
  22983883 PY<2003
  4506011  AY<2003
  3975367  PRY<2003
L6          84 L5 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> s 15 and (syner? or agonist?)
  132658  SYNER?
  174079  AGONIST?
L7          105 L5 AND (SYNER? OR AGONIST?)

=> s 17 and (py<2003 or ay<2003 or pry<2003)
  22983883 PY<2003
  4506011  AY<2003
  3975367  PRY<2003
L8          18 L7 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 18 ibib abs ti hitind 13-18

L8  ANSWER 13 OF 18  CAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:      2002:384278  CAPLUS  Full-text
DOCUMENT NUMBER:       136:381758
TITLE:                 Synergistic pesticides in rice paddies
INVENTOR(S):           Akayama, Atsuo; Yamawaki, Takahiro
PATENT ASSIGNEE(S):    Takeda Chemical Industries, Ltd., Japan
SOURCE:                Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE:         Patent
LANGUAGE:              Japanese
  
```

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	---
JP 2002145709 20010829 <--	A	20020522	JP 2001-259699	
PRIORITY APPLN. INFO.: 20000830 <--			JP 2000-260812	A
OTHER SOURCE(S):	MARPAT 136:381758			
AB	A synergistic pesticide contains an insecticide like clothianidin, a microbicide like isoprothiolane, and a herbicide. A number of Markush structures of pesticides are claimed.			
TI	Synergistic pesticides in rice paddies			
IC	ICM A01N047-38 ICS A01N037-22; A01N037-24; A01N041-04; A01N043-10; A01N043-76; A01N043-78; A01N043-86; A01N047-12; A01N047-36; A01N051-00			
CC	5-3 (Agrochemical Bioregulators)			
ST	synergism insecticide microbicide herbicide rice			
IT	Fungicides Herbicides Insecticides Molluscicides (in synergistic pesticides for rice paddies)			
IT	Pyricularia oryzae (synergistic pesticides for rice paddies for control of)			
IT	15263-52-2, Cartap hydrochloride 50512-35-1, Isoprothiolane 122548-33-8, Imazosulfuron 125306-83-4, Cafenstrole 210880-92-5, Clothianidin			
	RL: AGR (Agricultural use); BSU (Biological study, unclassified);			
BIOL	(Biological study); USES (Uses) (in synergistic pesticides for rice paddies)			
IT	108-62-3, Metaldehyde 27605-76-1 41814-78-2 51218-49-6, Pretilachlor 57369-32-1 73250-68-7, Mefenacet 79540-50-4, Etobenzanid 85785-20-2,			
	Eprococarb 88678-67-5, Pyributicarb 104030-54-8 110956-75-7, Pentozazone 115852-48-7 135158-54-2 152542-38-6 153197-14-9,			
	Oxaziclomefone 158237-07-1, Fentrazamide			
	RL: AGR (Agricultural use); BSU (Biological study, unclassified);			
BIOL	(Biological study); USES (Uses) (in synergistic pesticides in rice paddies)			
IT	427893-57-0			
	RL: AGR (Agricultural use); BSU (Biological study, unclassified);			
BIOL	(Biological study); USES (Uses) (synergistic pesticides for rice paddies)			
IT	220305-15-7 427893-58-1 427893-59-2 427893-60-5 427893-61-6			
	427893-62-7 427893-63-8 427893-64-9 427893-65-0			
	RL: AGR (Agricultural use); BSU (Biological study, unclassified);			
BIOL	(Biological study); USES (Uses)			

(synergistic pesticides in rice paddies)

L8 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:108925 CAPLUS Full-text
DOCUMENT NUMBER: 136:274771
TITLE: Interaction of dinotefuran and its analogues
with
nicotinic acetylcholine receptors of cockroach
nerve
cords
AUTHOR(S): Mori, Kazuki; Okumoto, Takashi; Kawahara,
Nobuyuki;
Ozoe, Yoshihisa
CORPORATE SOURCE: Department of Life Science and Biotechnology,
Shimane
University, Shimane, 690-8504, Japan
SOURCE: Pest Management Science (2002), 58(2),
190-196
CODEN: PMSCFC; ISSN: 1526-498X
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To investigate the action of dinotefuran (MTI-446, 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine), a recently developed insecticide, on insect nicotinic acetylcholine receptors (nAChRs), we determined the potencies of the compound and 22 analogs in inhibiting the specific binding of [³H]epibatididine (EPI), a nAChR agonist, and [³H] α -bungarotoxin (α -BGT), a comparative nAChR antagonist, to the nerve cord membranes of American cockroaches (*Periplaneta americana*). Racemic dinotefuran inhibited [³H]EPI binding with an IC₅₀ of 890 nM and [³H] α -BGT binding with an IC₅₀ of 36.1 μ M. Scatchard anal. indicated that the dinotefuran inhibition of [³H]EPI binding was a competitive one. Slight structural modification caused a drastic reduction in potency; only four analogs were found to be equipotent to or more potent than dinotefuran. Chloropyridinyl and chlorothiazolyl neonicotinoid insecticides displayed two or three orders of magnitude higher potency than dinotefuran. There was a good correlation between the IC₅₀ values of tested compds. obtained with [³H]EPI and those obtained with [³H] α -BGT. A better correlation was observed between 3-h knockdown activities (KD₅₀) against German cockroaches (*Blattella germanica*) and IC₅₀ values obtained from [³H]EPI assays than between 24-h lethal activities (LD₅₀) and IC₅₀ values. While the results indicate that dinotefuran and its analogs interact with the ACh-binding site in cockroach nAChRs, it remains to be elucidated why they displayed lower potencies than those expected based on their insecticidal activities.

TI Interaction of dinotefuran and its analogues with nicotinic acetylcholine

receptors of cockroach nerve cords

CC 5-4 (Agrochemical Bioregulators)

IT 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid 150824-47-8,

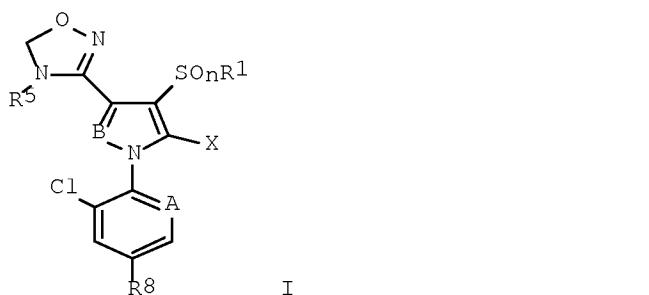
Nitenpyram 153719-23-4, Thiamethoxam 210880-92-5, Clothianidin

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(interaction with nicotinic acetylcholine receptors of cockroach nerve cords as compared to dinotefuran and its analogs)
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:423412 CAPLUS Full-text
 DOCUMENT NUMBER: 135:30294
 TITLE: Synergistic insecticidal compositions containing oxadiazoline derivatives, insect control, and enhancement of insecticidal action of the derivatives
 INVENTOR(S): Akayama, Atsuo
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
 CODEN: JKXXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001158785 19991130 <--	A	20010612	JP 1999-340604	
PRIORITY APPLN. INFO.: 19991130 <--			JP 1999-340604	
OTHER SOURCE(S): GI		MARPAT 135:30294		



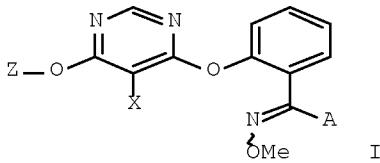
AB Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6 haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrrolyl; R5 = (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6

haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n = 1, R1 = R8 = CF₃, R5 = CONMe₂, A = CCl, B = N, X = N:CHOCHMe₂) (preparation given) and clothianidin showed synergistic action against *Plutella maculipennis* larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

L8 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:349202 CAPLUS Full-text
 DOCUMENT NUMBER: 132:344443
 TITLE: Synergistic fungicidal compositions.
 INVENTOR(S): Mauler-Machnik, Astrid; Wachendorf-Neumann,
 Ulrike;
 Gayer, Herbert
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 18 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19939841	A1	20000525	DE 1999-19939841	
19990823 <--				
IN 1999B000745	A	20050304	IN 1999-BO745	
19991102 <--				
CA 2351500	A1	20000602	CA 1999-2351500	
19991108 <--				
WO 2000030440	A2	20000602	WO 1999-EP8558	
19991108 <--				
WO 2000030440	A3	20000831		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
ID, IL,	CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,			
LV, MA,	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,			
SG, SI,	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,			
CY, DE,	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
BJ, CF,	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,			
	DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,			
	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2000010460	A	20000613	AU 2000-10460	
19991108 <--				
AU 752441	B2	20020919		

BR 9915518	A	20010717	BR 1999-15518
19991108 <--			
EP 1130963	A2	20010912	EP 1999-953975
19991108 <--			
EP 1130963	B1	20050302	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
IE, SI, LT, LV, FI, RO			
TR 200101379	T2	20011121	TR 2001-1379
19991108 <--			
HU 2001004483	A2	20020328	HU 2001-4483
19991108 <--			
HU 2001004483	A3	20020429	
TR 200103810	T2	20020621	TR 2001-3810
19991108 <--			
TR 200103811	T2	20020621	TR 2001-3811
19991108 <--			
JP 2002530297	T	20020917	JP 2000-583338
19991108 <--			
CN 1157118	C	20040714	CN 1999-813518
19991108 <--			
EP 1506711	A2	20050216	EP 2004-24463
19991108 <--			
EP 1506711	A3	20050427	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
IE, FI, CY			
AT 289750	T	20050315	AT 1999-953975
19991108 <--			
PT 1130963	T	20050630	PT 1999-953975
19991108 <--			
ES 2238853	T3	20050901	ES 1999-953975
19991108 <--			
TW 521994	B	20030301	TW 1999-88119807
19991115 <--			
US 6559136	B1	20030506	US 2001-856023
20010516 <--			
MX 2001005029	A	20000827	MX 2001-5029
20010518 <--			
US 20030161896	A1	20030828	US 2003-371770
20030221 <--			
PRIORITY APPLN. INFO.:			
19981120 <--			
		DE 1998-19853559	A1
19990823 <--		DE 1999-19939841	A
19991108 <--		EP 1999-953975	A3
19991108 <--		WO 1999-EP8558	W
20010516 <--		US 2001-856023	A3
OTHER SOURCE(S):	MARPAT 132:344443		
GI			



AB The title compns. comprise the pyrimidine derivs. I [Z = (un)substituted Ph; X = halo; A = heterocyclyl, CO₂Me or CHNHMe] and any of a large number of known fungicides.
TI Synergistic fungicidal compositions.
IC ICM A01N043-54
CC 5-2 (Agrochemical Bioregulators)
ST pyrimidine deriv fungicide synergism
IT Fungicides

L8 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:549118 CAPLUS Full-text
 DOCUMENT NUMBER: 131:181124
 TITLE: Aqueous formulations for combating parasitic
 insects
 and acarina on humans
 INVENTOR(S): Sirinyan, Kirkor; Horn, Karin; Stocker, Ronald
 Helmut;
 Sonneck, Rainer
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 9941987 19990210 <--	A1	19990826	WO 1999-EP878	
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,	DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,	KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,	MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,	TR, TT, UA, UG, US, UZ, VN, YU, ZW
DK, ES,	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		

DE 19807630	A1	19990826	DE 1998-19807630
19980223 <--			
CA 2321206	A1	19990826	CA 1999-2321206
19990210 <--			
AU 9925230	A	19990906	AU 1999-25230
19990210 <--			
AU 739980	B2	20011025	
BR 9908197	A	20001024	BR 1999-8197
19990210 <--			
TR 200002441	T2	20001121	TR 2000-2441
19990210 <--			
EP 1056342	A1	20001206	EP 1999-904877
19990210 <--			
EP 1056342	B1	20030820	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
IE, FI			
HU 2001000959	A2	20010828	HU 2001-959
19990210 <--			
JP 2002503682	T	20020205	JP 2000-532014
19990210 <--			
AT 247384	T	20030915	AT 1999-904877
19990210 <--			
PT 1056342	T	20031231	PT 1999-904877
19990210 <--			
ES 2205770	T3	20040501	ES 1999-904877
19990210 <--			
CN 1294812	C	20070117	CN 1999-803231
19990210 <--			
ZA 9901384	A	19990823	ZA 1999-1384
19990222 <--			
IN 2000MN00226	A	20050715	IN 2000-MN226
20000727 <--			
US 6369054	B1	20020409	US 2000-601572
20000803 <--			
MX 2000008052	A	20010405	MX 2000-8052
20000817 <--			
HK 1035993	A1	20070914	HK 2001-107011
20011005 <--			
PRIORITY APPLN. INFO.:			DE 1998-19807630 A
19980223 <--			WO 1999-EP878 W
19990210 <--			

OTHER SOURCE(S): MARPAT 131:181124

AB The invention relates to aqueous formulations for combating parasitic insects and acarina on the skin of human beings, having the following composition: agonists or antagonists of nicotinic acetylcholine receptors of insects, such as imidacloprid, at 0.0001-7.5 weight %; water, at 20-50 weight %; acyclic alcs., at 20-50 weight %; solvents from the group of cyclic carbonates or lactones,.5-20.0 weight %; and, optionally, other adjuvants from the group of thickening agents, antioxidants, expanding agents, preserving agents, deposit builders and emulsifiers, at ≥30 weight %.

TI Aqueous formulations for combating parasitic insects and acarina on humans

IC ICM A01N051-00

ICS A01N061-00; A01N051-00; A01N043-08; A01N031-02; A01N025-02;
 A01N061-00; A01N043-08; A01N031-02; A01N025-02
 CC 5-4 (Agrochemical Bioregulators)
 IT Nicotinic agonists
 Nicotinic antagonists
 Pesticide formulations
 (aqueous ectoparasiticidal formulation for humans)
 IT 58842-20-9 101336-63-4 101336-64-5 105827-70-1 105828-97-5
 105843-35-4 105843-36-5 111988-43-3 111988-49-9 111988-51-
 3 120738-88-7 120738-89-8 131748-47-5 131748-49-7 131748-54-
 4 131748-55-5 131768-12-2 135410-20-7 135410-92-3 136516-18-
 2 136516-19-3, AKD 1022 138261-41-3, Imidacloprid 138681-61-5
 153719-22-3 153719-23-4 165252-70-0 165253-13-4 171103-03-
 0 171103-04-1 172333-79-8 172333-80-1 172333-81-2 185043-87-
 2 210830-92-5, Ti 435
 RL: BUU (Biological use, unclassified); THU (Therapeutic use);
 BIOL (Biological study); USES (Uses)
 (aqueous ectoparasiticidal formulation for humans)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L8 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:549117 CAPLUS Full-text
 DOCUMENT NUMBER: 131:166526
 TITLE: Aqueous formulations of animal
 ectoparasiticides
 INVENTOR(S): Sirinyan, Kirkor; Dorn, Hubert; Heukamp,
 Ulrich
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
WO 9941986 19990210 <--	A1	19990826	WO 1999-EP875	
CZ, DE,	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, IS, JP, MK, MN, TJ, TM,	DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,		

	TR, TT, UA, UG, US, UZ, VN, YU, ZW		
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE,		
DK, ES,	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,		
CG, CI,	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
DE 19807633	A1 19990826	DE 1998-19807633	
19980223 <--			
CA 2321209	A1 19990826	CA 1999-2321209	
19990210 <--			
AU 9926230	A 19990906	AU 1999-26230	
19990210 <--			
AU 750954	B2 20020801		
BR 9908173	A 20001031	BR 1999-8173	
19990210 <--			
EP 1056343	A1 20001206	EP 1999-906223	
19990210 <--			
EP 1056343	B1 20041013		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT,			
IE, SI,	LT, LV, FI, RO		
TR 200002443	T2 20001221	TR 2000-2443	
19990210 <--			
HU 2001000790	A2 20010828	HU 2001-790	
19990210 <--			
JP 2002503681	T 20020205	JP 2000-532013	
19990210 <--			
EE 200000485	A 20020215	EE 2000-485	
19990210 <--			
NZ 506460	A 20030131	NZ 1999-506460	
19990210 <--			
TW 581660	B 20040401	TW 1999-88102018	
19990210 <--			
RU 2232505	C2 20040720	RU 2000-124395	
19990210 <--			
AT 279114	T 20041015	AT 1999-906223	
19990210 <--			
PT 1056343	T 20050131	PT 1999-906223	
19990210 <--			
ES 2230835	T3 20050501	ES 1999-906223	
19990210 <--			
IL 137618	A 20060820	IL 1999-137618	
19990210 <--			
CN 1328958	C 20070801	CN 1999-805324	
19990210 <--			
ZA 9901385	A 19990823	ZA 1999-1385	
19990222 <--			
BG 104690	A 20011031	BG 2000-104690	
20000815 <--			
BG 64814	B1 20060531		
MX 2000008051	A 20010405	MX 2000-8051	
20000817 <--			
NO 2000004188	A 20001023	NO 2000-4188	
20000822 <--			
NO 324076	B1 20070806		
HK 1037479	A1 20080523	HK 2001-108376	
20011128 <--			

US 20030162773	A1	20030828	US 2003-347003		
20030117 <--					
US 7384938	B2	20080610			
PRIORITY APPLN. INFO.:			DE 1998-19807633	A	
19980223 <--			WO 1999-EP875	W	
19990210 <--			US 2000-622660	B1	
20000821 <--					
OTHER SOURCE(S):	MARPAT 131:166526				
AB	The invention relates to aqueous formulations for combating parasitic insects and acarina on the skin of animals, having the following composition: (a) agonists or antagonists of nicotinic acetylcholine receptors of insects, at 1-20 weight %; (b) water, at 2.5-15 weight %; (c) solvents from the group of alcs., such as benzyl alc., tetrahydrofurfuryl alc. or optionally-substituted pyrrolidone, at ≥20 weight %; (d) solvents from the group of the cyclic carbonates or lactones. at 5-50.0 weight %; (e) optionally, other adjuvants from the group of the thickening agents, spreading agents, colorants, antioxidants, expanding agents, preserving agents, deposit builders and emulsifiers, at 0.025-10 weight %.				
TI	Aqueous formulations of animal ectoparasiticides				
IC	ICM A01N051-00 ICS A01N061-00; A01N051-00; A01N043-36; A01N043-08; A01N031-04; A01N025-02; A01N061-00; A01N043-36; A01N043-08; A01N031-04; A01N025-02				
CC	5-4 (Agrochemical Bioregulators) Section cross-reference(s): 2				
IT	Nicotinic agonists Nicotinic antagonists (in aqueous formulations of animal ectoparasiticides)				
IT	58842-20-9 105843-35-4	101336-63-4 105843-36-5	101336-64-5 111988-43-3	105827-70-1 111988-49-9	105828-97-5 111988-51-
3	120738-88-7	120738-89-8	131748-47-5	131748-49-7	131748-54-
4	131748-55-5	131768-12-2	135410-20-7	135410-92-3	136516-18-
2	136516-19-3, AKD 1022 153719-22-3	138261-41-3, Imidacloprid 153719-23-4	165252-70-0	165253-13-4	138681-61-5 171103-03-
0	171103-04-1	172333-79-8	172333-80-1	172333-81-2	185043-87-
2	210880-92-5, Ti 435				
USES	RL: BUU (Biological use, unclassified); BIOL (Biological study); (Uses)				